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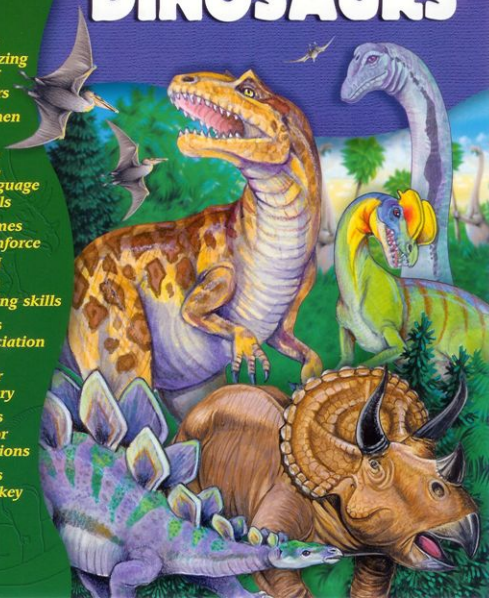
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that reinforce
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*Includes
pronunciation
key and
dinosaur
dictionary*

*Features
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*Includes
answer key*



THE COMPLETE BOOK OF **DINOSAURS**

Grades 1—3



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The Complete Book of Dinosaurs

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Introduction

Since the discovery of the first dinosaur fossils, scientists have been searching for answers about these mysterious creatures. Even today, bones are being discovered all over the world that help us learn about dinosaurs and the world in which they lived.

Although dinosaur bones had been found for centuries, it was not until the early 1800s that scientists began to understand what they had discovered. In 1818, a scientist described a piece of jawbone as having come from an animal that was extinct. Before this statement, no one believed that a species of animal could become extinct.

The Complete Book of Dinosaurs helps explain the world of dinosaurs, the habitats in which they lived, and theories about why they became extinct. At the same time the book reinforces basic skills. You will read lively passages about dinosaurs, strengthen math, reading, spelling, and language arts skills, practice test-taking skills, and play games that reinforce learning.

A pronunciation key is located in the front of this book for your convenience. You will also find a dictionary of dinosaur terms at the back of this book.



Pronunciation Key

Acrocanthosaurus

(ACK-roh-KAN-thuh-SAW-rus)

Allosaurus

(AL-uh-SAW-rus)

Amphibian

(am-FI-be-an)

Anatosaurus

(uh-NAT-uh-SAW-rus)

Ankylosaurs

(ang-KYE-luh-SAWRS)

Ankylosaurus

(ang-KYE-luh-SAW-rus)

Apatosaurus

(uh-PAT-uh-SAW-rus)

Archaeoceratops

(AR-kee-oh-ser-uh-tops)

Archaeopteryx

(AR-kee-OP-ter-iks)

Argentinosaurus

(ahr-gen-TEEN-uh-SAW-rus)

Barosaurus

(BAYR-uh-SAW-rus)

Baryonyx

(BAYR-ee-ON-icks)

Brachiosaurus

(BRACK-ee-uh-SAW-rus)

Camarasaurus

(KAM-uh-ruh-SAW-rus)

Camptosaurus

(KAMP-tuh-SAW-rus)

Carnivore

(KAHR-ni-vore)

Carnotaurus

(KAHR-nuh-TOR-us)

Caudipteryx

(kaw-DIP-ter-iks)

Cenozoic

(SEE-nuh-ZOH-ik)

Centrosaurus

(sen-truh-SAW-rus)

Ceratosaurus

(si-RAT-uh-SAW-rus)

Coelophysis

(SEE-luh-FYE-sis)

Coelurus

(see-LURE-us)

Compsognathus

(KOMP-sog-NAY-thus)

Corythosaurus

(kor-ITH-uh-SAW-rus)

Cretaceous

(kri-TAY-shus)

Dacentrurus

(DAY-sen-TROO-rus)

Daspletosaurus

(das-PLÉE-tuh-SAW-rus)

Deinonychus

(dye-NON-i-kus)

Dilophosaurus

(dye-LOH-fuh-SAW-rus)

Pronunciation Key

Dimetrodon

(dye-MET-ruh-don)

Dinosaur

(DYE-nuh-sawr)

Dinosaurus

(DYE-nuh-SAW-rus)

Diplodocus

(di-PLOH-duh-kus)

Dromaeosaurs

(DROH-mee-uh-SAWRS)

Edmontosaurus

(ed-MON-tuh-SAW-rus)

Enchodus

(EN-cho-dus)

Eoraptor

(EE-oh-RAP-tor)

Euoplocephalus

(YOO-oh-pluh-SEF-uh-lus)

Gallimimus

(GAL-i-MYE-mus)

Gastrolith

(GAS-troh-lith)

Giganotosaurus

(jye-GAN-uh-tuh-SAW-rus)

Hadrosaurs

(HAD-ruh-SAWRS)

Hadrosaurus

(HAD-ruh-SAW-rus)

Herbivore

(URB-uh-vor)

Herrerasaurus

(huh-RAYR-uh-SAW-rus)

Heterodontosaurus

(HET-ur-uh-DON-tuh-SAW-rus)

Hylaeosaurus

(HI-lee-uh-SAW-rus)

Hypsilophodon

(HIP-suh-LOH-fuh-don)

Ichthyosaurs

(IK-thee-uh-SAWRS)

Ichthyosaurus

(IK-thee-uh-SAW-rus)

Iguanodon

(i-GWAN-uh-don)

Ingenia

(in-JEE-nee-uh)

Jurassic

(joo-RAS-ik)

Kentrosaurus

(KEN-truh-SAW-rus)

Kuehneosaurus

(CUNE-ee-uh-SAW-rus)

Lambeosaurus

(LAM-bee-uh-SAW-rus)

Leaellynasaura

(lay-EL-i-nuh-SAW-ruh)

Lesothosaurus

(li-SOH-thuh-SAW-rus)

Maiasaura

(MYE-uh-SAW-ruh)



Pronunciation Key

Massospondylus
(MAS-uh-SPON-di-lus)

Megalosaurus
(MEG-uh-luh-SAW-rus)

Mesozoic
(mez-uh-ZO-ik)

Monoclonius
(MON-uh-KLOH-nee-us)

Ornithischia
(or-ni-THISS-key-uh)

Ornithomimosaur
(or-NITH-uh-MIEM-uh-SAWRS)

Ornithomimus
(or-NITH-uh-MIEM-us)

Oviraptor
(OH-vi-RAP-tor)

Pachycephalosaurus
(PACK-I-SEF-uh-luh-SAW-rus)

Pachyrhinosaurus
(PACK-I-RYE-nuh-SAW-rus)

Paleontologist
(pay-le-un-TOL-uh-gist)

Pangaea
(pan-JE-uh)

Panoplosaurus
(PAN-uh-pluh-SAW-rus)

Parasaurolophus
(PAR-uh-SAW-ruh-LOH-fus)

Parksosaurus
(PAHRK-suh-SAW-rus)

Pentaceratops
(PEN-tuh-SER-uh-tops)

Plateosaurus
(PLAY-tee-uh-SAW-rus)

Plesiosaurs
(PLE-zio-SAWRS)

Plesiosaurus
(PLE-zio-SAW-rus)

Pliosaurus
(PLY-uh-SAWRS)

Podokesaurus
(POH-doh-kuh-SAW-rus)

Polacanthus
(POH-la-CAN-thus)

Procompsognathus
(proh-KOMP-soh-guh-NAY-thus)

Protoceratops
(PROH-tuh-SER-uh-tops)

Psittacosaurus
(si-TACK-uh-SAWRS)

Psittacosaurus
(si-TACK-uh-SAW-rus)

Pteranodon
(ter-AN-oh-DON)

Pterosaurs
(ter-uh-SAWRS)

Riojasaurus
(ree-OH-jah-SAW-rus)

Rutiodon
(ROO-tee-uh-don)



Pronunciation Key

Saltasaurus

(SAWL-tuh-SAW-rus)

Saltopus

(SAWL-tuh-puss)

Saurischia

(sawr-IS-key-ah)

Saurolophus

(SAW-ruh-LOH-rus)

Sauropods

(SAW-ruh-pods)

Scelidosaurus

(SKEL-eye-duh-SAW-rus)

Segnosaurus

(SEG-nuh-SAW-rus)

Seismosaurus

(SYEZ-muh-SAW-rus)

Shonisaurus

(SHOO-nuh-SAW-rus)

Spinosaurus

(SPYE-nuh-SAW-rus)

Staurikosaurus

(STOR-ee-kuh-SAW-rus)

Stegosaurus

(STEG-uh-SAW-rus)

Stenonychosaurus

(ste-NON-i-kuh-SAW-rus)

Struthiomimus

(STROO-thee-uh-MYE-mus)

Stygimoloch

(STIG-i-MOL-uck)

Styracosaurus

(stye-RACK-uh-SAW-rus)

Supersaurus

(soo-pur-SAW-rus)

Syntarsus

(sin-TAR-sus)

Tarbosaurus

(TAR-bow-SAW-rus)

Thecodontosaurus

(THE-co-dont-uh-SAW-rus)

Thecodonts

(THE-co-donts)

Thescelosaurus

(THES-ke-luh-SAW-rus)

Triassic

(tri-AS-ik)

Triceratops

(try-SER-uh-tops)

Troödon

(TROH-uh-don)

Tsintaosaurus

(sin-TOU-SAW-rus)

Tyrannosaurus

(tie-RAN-uh-SAW-rus)

Utahraptor

(Yoo-tah-RAP-tor)

Velociraptor

(ve-LOS-i-RAP-tor)

Zuniceratops christopherei

(ZOO-nee-SER-uh-tops)

kris-TUHF-er-eye)



What Species of Animal Were Dinosaurs?

Dinosaurs were reptiles that lived millions of years ago. Like today's reptiles, dinosaurs laid eggs, and had backbones, lungs, and scaly skin.



Two key features that help scientists to identify dinosaurs are: (1) their skulls that have two holes behind the eye sockets, and (2) their hip bones that resemble those of lizards or birds.

Most scientists think that dinosaurs lived on land and walked with their legs under their bodies—not out to the sides like alligators. Many different kinds of dinosaurs lived all over the world.

1. Why are dinosaurs considered reptiles?

2. How do dinosaurs differ from alligators?

3. What two features help scientists identify dinosaurs?

4. Name some reptiles that are living today.

5. Which living reptile do you think looks most like a dinosaur? Why?

6. Name some other animals that walk with their legs under their bodies.



Where Did Dinosaurs Come From?

Scientists believe the ancestors, or early relatives, of dinosaurs developed from amphibians.

Amphibians, such as frogs and salamanders, can live on land, but they must keep their skin wet and return to water to lay eggs.



Amphibians that lived long ago looked like big salamanders. Over millions of years, some of them developed into animals with stronger skeletons, tougher skins, and hard eggs. These new animals were the first reptiles. One ancient group of reptiles, called thecodonts, were slim and fast. In time, they developed into dinosaurs.

Answer the questions below by filling in the correct answers. The first one has been done for you.

1. Which animal is an amphibian?



a cat



an elephant



a thecodont



a frog

2. What does ancient mean?



wet skin



five years old



very old



young



3. How did some ancient amphibians develop into reptiles?



A They walked more on the ground.



B They developed stronger skeletons, tougher skins, and harder eggs.



C They laid their eggs in the water.



D They became slim and fast.

4. Which animals lived first?



A amphibians



B dinosaurs



C alligators



D mice

5. What was one of the first groups of reptiles called?



A rats



B thecodonts



C salamanders



D frogs

6. Over time, thecodonts developed into _____.



A frogs



B amphibians



C dinosaurs



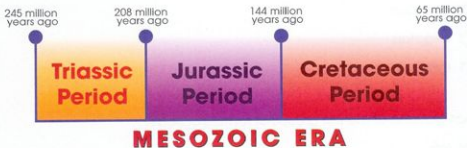
D salamanders



How Long Ago Did Dinosaurs Live?

The history of the earth is divided into eras, or time periods. Dinosaurs lived during the Mesozoic Era, which is also called the **Age of Reptiles**.

The Mesozoic Era began 245 million years ago and ended 65 million years ago. It is divided into three periods—the Triassic, the Jurassic, and the Cretaceous Periods. The landscape and vegetation of the earth changed from one period to another, as did life for the dinosaurs.



1. What is an era?

2. What era is known as the Age of Reptiles?



3. Name the three periods in the Age of Reptiles.

4. When did that era begin and end?

5. If you had a time machine that could take you back to that era, would you go? Why or why not?

6. Dinosaurs are prehistoric animals. What does prehistoric mean?

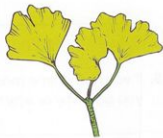


What Was the World Like When Dinosaurs Lived?





The world's **climate**, or long-term weather, was generally warm during the Mesozoic Era. In the early part of the era, there were many evergreen trees and shrubs, and ferns. Later, ginkgo trees with fan-shaped leaves appeared. These were followed by flowering plants, which added flecks of color to the earth.







Just like today's earth, some places in the Mesozoic world had tropical rain forests, while others had sandy deserts or great plains. Different kinds of dinosaurs lived in each of these habitats, or areas.



1. What does climate mean?

-  **A** a period of time
-  **B** lived long ago
-  **C** long-term weather
-  **D** favored over another

2. What was the climate like when dinosaurs lived?





-  **A** hot and humid
-  **B** warm
-  **C** rainy
-  **D** overcast







3. During the early Mesozoic Era, the main types of plants were ____.

-  oak and willow trees
-  evergreen trees and shrubs, and ferns
-  little shrubs
-  roses and daisies

4. In what order did these plants appear in the Mesozoic Era?

-  evergreen trees and shrubs, flowering plants, ginkgo trees
-  ginkgo trees, flowering plants, ferns
-  flowering plants, ferns, ginkgo trees
-  evergreens and shrubs, ginkgo trees, flowering plants

5. What is a habitat?

-  a manner of behavior
-  an area where something lives
-  a sandy desert
-  a great plain

6. What type of habitat was not typical during the Mesozoic Era?

-  sandy deserts
-  tropical rain forests
-  great plains
-  icy mountains

Where Did Dinosaurs Live?

Most scientists think that when dinosaurs first appeared, the earth's continents were all joined together as one supercontinent called **Pangaea**, which means "all the land." Dinosaurs roamed all over the giant **landmass**, or large area of land. About 150 million years ago, Pangaea began to split into separate landmasses that looked like our modern-day continents. Dinosaurs traveled with the moving landmasses. As a result, dinosaurs lived on every continent on the earth.



Pangaea

(about 250 million years ago)



Pangaea splitting

(about 150 million years ago)

1. What was Pangaea?

2. Why was Pangaea called a supercontinent?

3. When did Pangaea begin to break apart?

4. Why did dinosaurs live on every continent on the earth?

5. What do you think surrounded Pangaea?

6. How many continents are there on modern-day earth? Name them.







Did Dinosaurs Migrate?

Scientists believe some dinosaurs **migrated**, or traveled from place to place, in search of food. One reason they believe this is because the fossils of the large, horned, plant-eater, *Pachyrhinosaurus* have been found in the Arctic, Alaska, and Canada. Just like today, Arctic winters were long and dark in the Mesozoic Era. Plants would not have lived due to the lack of sunshine. Scientists think Arctic dinosaurs may have migrated south in winter and north in spring to have a steady supply of food.







1. What does migrate mean?

-  travel to space
-  search for food
-  travel from place to place
-  long, dark winter

----- : migration route of *Pachyrhinosaurus*

2. Why did some dinosaurs migrate?

-  They were looking for a house.
-  They were looking for food.
-  They were looking for other dinosaurs.
-  They were outgrowing their habitats.







Pachyrhinosaurus





3. Where have the bones of Pachyrhinosaurus not been found?

-  the Arctic
-  Alaska
-  Africa
-  Canada

4. Arctic winters in the Mesozoic Era were _____.

-  warm, short, and sunny
-  rainy and windy
-  hot and humid
-  cold, long, and dark

5. Why were plants not able to live in the Mesozoic Era Arctic?

-  There was not enough light.
-  There were not enough dinosaurs.
-  There was no wind.
-  There was not enough water.

6. Which modern-day animals migrate south in the winter and north in the spring?

-  lions
-  birds
-  ants
-  dogs



Word Search Activity

Use the word list to help you find the words about dinosaurs that are hidden in the block below. Some of the words are hidden backward or diagonally.

T	C	L	I	M	A	T	E	G	N	E	J	U	R	A	S
O	I	A	V	E	G	H	R	R	B	D	X	P	Z	O	R
Z	S	N	W	S	R	X	A	A	M	I	G	R	A	T	E
O	S	U	P	E	R	C	O	N	T	I	N	E	N	T	P
T	A	E	I	A	E	T	A	T	I	B	A	H	K	R	T
H	R	P	L	B	N	C	Z	X	V	N	A	I	D	I	I
E	U	G	J	I	L	G	K	H	F	S	Q	S	E	A	L
C	J	L	T	U	T	O	A	P	I	Y	R	T	W	S	E
O	D	A	N	C	A	P	M	E	B	C	X	O	L	S	S
D	E	N	J	G	D	A	E	K	A	H	F	R	S	I	P
O	V	D	I	Y	R	W	O	R	U	T	E	I	Q	C	Z
N	L	M	C	B	V	Z	M	X	F	N	A	C	L	S	K
T	O	A	C	R	E	T	A	C	E	O	U	S	F	J	F
S	V	S	H	G	Q	P	W	O	T	N	E	I	C	N	A
M	E	S	O	Z	O	I	C	E	R	A	E	G	I	R	U
T	Y	M	Z	N	X	A	M	P	H	I	B	I	A	N	S

WORD LIST

AGE OF REPTILES
AMPHIBIANS
ANCIENT
CLIMATE
CRETACEOUS
ERA

EVOLVED
HABITAT
JURASSIC
LANDMASS
MESOZOIC ERA
MIGRATE

PANGAEA
PREHISTORIC
REPTILES
SUPERCONTINENT
THECODONTS
TRIASSIC



Get a Clue!

Unscramble the words below. Then, use the words as clues to fill in the answers to the questions.

geA fo ptsReile _____

hpminasbia _____

ecmlait _____

sariscuJ _____

digmrtae _____

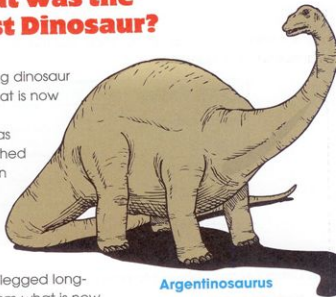
tscolneupnnter _____

1. Dinosaurs are believed to have _____, much like birds do today.
2. The Mesozoic Era is also known as the _____.
3. Pangaea was a _____ that split apart into separate continents during the Mesozoic Era.
4. _____ are animals that must keep their skin wet and return to the water to lay their eggs.
5. The _____ Period lasted from 208 million years ago to 144 million years ago.
6. Plants were able to flourish during the Mesozoic Era because the world's _____ was generally warm.



What Was the Biggest Dinosaur?

The largest known meat-eating dinosaur was Giganotosaurus, from what is now Argentina. Giganotosaurus measured 45 feet in length—as long as three cars—and weighed 8 tons, or slightly more than an African elephant. It walked on two legs and had long, sharp teeth.



Argentinosaurus

The largest known plant-eating dinosaur was the four-legged long-neck Argentinosaurus, also from what is now Argentina. It measured 115 feet in length—almost as long as eight cars—and weighed 100 tons, or as much as fourteen African elephants.

1. What was the biggest known plant-eating dinosaur?

2. What was the biggest known meat-eating dinosaur?

3. Was the largest known dinosaur a meat-eater or a plant-eater?

4. Which of these two biggest dinosaurs do you think moved faster? Why?

5. Why do you think Argentinosaurus walked on four legs instead of two?

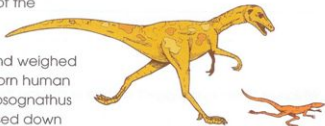
6. How many Giganotosauruses would need to be lined up to equal the length of one Argentinosaurus?



What Was the Smallest Dinosaur?

Compsognathus was one of the smallest known dinosaurs.

This meat-eater was about as big as a turkey and weighed about as much as a newborn human baby. Scientists think Compsognathus was a fast runner that chased down small lizards and other prey.



Compsognathus

















Heterodontosaurus, also about as big as a turkey, was among the smallest known plant-eaters. It had several kinds of teeth, which it may have used to bite, tear, and grind plants.

1. What was the smallest known plant-eating dinosaur?

-  A Compsognathus
-  B Giganotosaurus
-  C Heterodontosaurus
-  D Argentinosaurus

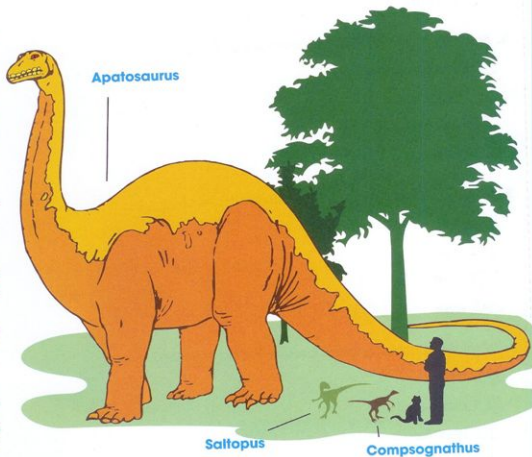
2. What was the smallest known meat-eating dinosaur?

-  A Argentinosaurus
-  B Compsognathus
-  C Giganotosaurus
-  D Heterodontosaurus

3. Compsognathus and Heterodontosaurus were about the same size as _____.
 a mouse
 a horse
 a newborn baby
 a turkey
4. Scientists think that Compsognathus was a _____.
 fast runner
 quick eater
 newborn baby
 turkey
5. Heterodontosaurus had many different types of _____.
 feet
 scales
 teeth
 eyes
6. What was Compsognathus believed to have eaten?
 rats
 plants
 small lizards
 large birds

How Big Were Dinosaurs?

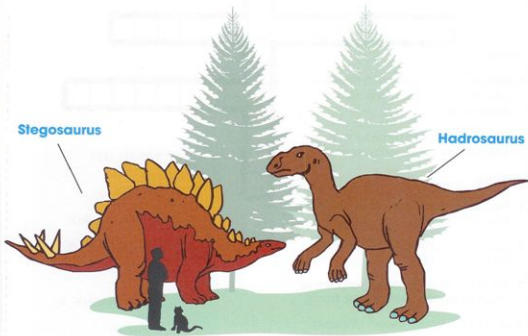
Some dinosaurs were incredibly big, while others were small. The pictures below, and on the next page, should give you an idea of how big, or how small, some dinosaurs were compared to a grown-up man and a cat.



1. Which of the dinosaurs on these pages were smaller than you are?

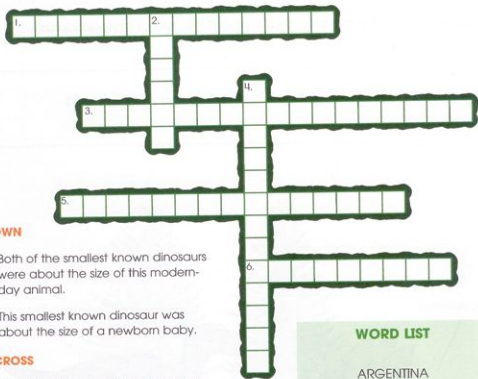
2. Can you think of something that is about the size of a Stegosaurus?

3. Can you think of anything that is bigger than an Apatosaurus?



Crossword Activity

Read the clues about dinosaurs. Then, complete the puzzle using the word list below.



DOWN

2. Both of the smallest known dinosaurs were about the size of this modern-day animal.
4. This smallest known dinosaur was about the size of a newborn baby.

ACROSS

1. This biggest known dinosaur was as long as three cars.
3. _____ is the smallest known plant-eating dinosaur.
5. This plant-eating dinosaur weighed as much as fourteen African elephants.
6. Both of the largest known dinosaurs are from _____.

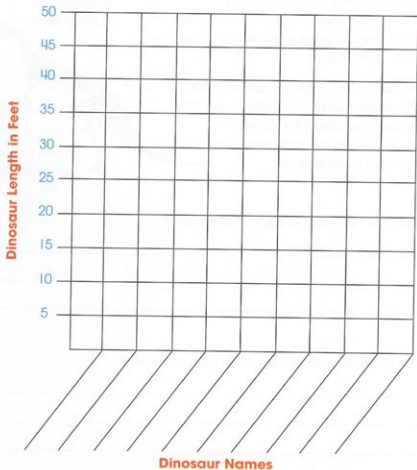
WORD LIST

ARGENTINA
 ARGENTINOSAURUS
 COMPSOGNATHUS
 GIGANOTOSAURUS
 HETERODONTOSAURUS
 TURKEY



How Long Were Dinosaurs?

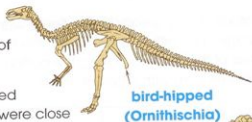
Dinosaurs varied greatly in size. Some were up to 90 feet long! Use the charts on pages 130, 140, and 154 to find the lengths of some dinosaurs. Write the names of the dinosaurs along the bottom of the line graph. Color in the lengths (in feet) with different colors.



What Were the Two Main Groups of Dinosaurs?

Dinosaurs are divided into two main groups, based on the arrangement of their hipbones.

The **Ornithischia** were the bird-hipped dinosaurs. Their two lower hipbones were close together and pointed backward. The Ornithischia included only plant-eaters.



The **Saurischia** were the lizard-hipped dinosaurs. Their two lower hipbones were separated, with one pointed forward and the other pointed backward. The Saurischia included both plant-eaters and meat-eaters.



1. What are the two main groups of dinosaurs?

2. How are the two main groups of dinosaurs divided?

3. Which group were bird-hipped dinosaurs? Explain what bird-hipped means.

4. Which group were lizard-hipped dinosaurs? Explain what lizard-hipped means.

5. Which group included only plant-eating dinosaurs?

6. Which group would Tyrannosaurus, a meat-eater, be in?



What Were Meat-eating Dinosaurs?

Meat-eating dinosaurs were **carnivores** that hunted other animals for food. The meat-eaters had long, strong legs so that they could run fast in order to catch their prey. They also had strong jaws, and sharp teeth and claws to kill and tear apart their catch.

Meat-eating dinosaurs had different ways of hunting. Some carnivores hunted alone while others hunted in groups, called packs. Some were scavengers. They ate the meat that was left over from another's kill.

All together, meat-eating dinosaurs made up only 35 percent of the entire dinosaur population. The smaller number of meat-eaters balanced out the food chain. If there were more meat-eaters than plant-eaters, there would not have been enough food and the meat-eaters would have most likely starved.

1. Meat-eating dinosaurs were _____.

 A vegetarians

 B carnivores

 C herbivores

 D omnivores

2. Carnivores made up _____ of the entire dinosaur population.

 A 75 percent

 B 35 billion

 C 35 million

 D 35 percent

What Were Plant-eating Dinosaurs?

Plant-eating dinosaurs were **herbivores** that ate only plants. Plant-eaters had many features on their bodies that helped them eat. Some had blunt snouts, or beaks, for stripping leaves and twigs from plants. Others had blunt teeth for chewing and grinding their food. Many had pouches in their cheeks in which they stored food before eating it. Plus some plant-eaters swallowed rocks, called **gastroliths**, to help them digest their food. Some herbivores also had thumb spikes that they could have used for defense or for gathering food.

Plant-eating dinosaurs could have more than one of these features to help them eat. They probably spent most of their time eating to get enough food to survive.

1. Plant-eating dinosaurs are also called _____.

2. What are the rocks called that some herbivores swallowed? Why did they swallow the rocks?

3. Why did some plant-eaters have cheek pouches?



What Were Nippers, Rippers, and Grinders?



How do scientists know that some dinosaurs were meat-eaters and others were plant-eaters? By looking at the teeth of certain dinosaur fossils, scientists can tell what those dinosaurs ate. Meat-eaters had sharp, saw-edged teeth (figure 1) for cutting and ripping flesh. Plant-eating dinosaurs had either peg-like teeth (figure 2) for nipping plants or flat grinding teeth (figure 3) to munch tough twigs or leaves.

Look at the teeth of each dinosaur below. Then, circle either "M" for meat-eater or "P" for plant-eater.

**Meat-eater
or
Plant-eater**

Tyrannosaurus



M

P

Parasaurolophus



M

P

Monoclonius



M

P

Hypsilophodon



M

P

Triceratops



M

P

What Is the Difference?

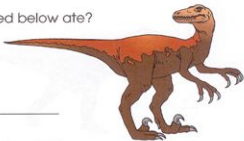
1. Which of the two dinosaur skulls shown below do you think belongs to a meat-eater? Circle your answer.



2. How do you know?

3. How else can you tell the difference between a carnivore and an herbivore?

4. What do you think the dinosaur pictured below ate?



Velociraptor

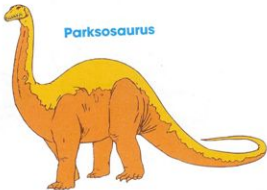
Which Was Which?

Circle the dinosaurs pictured below and on the next page that you think were meat-eaters. Put a square around the plant-eaters.

Saltopus



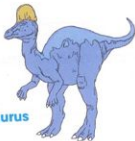
Parksosaurus



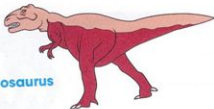
Pentaceratops



Corythosaurus



Tarbosaurus

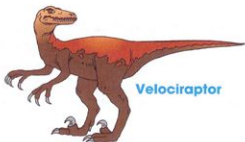


Podokesaurus

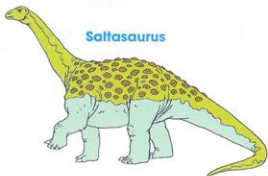




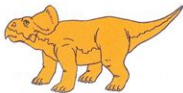
Parasaurolophus



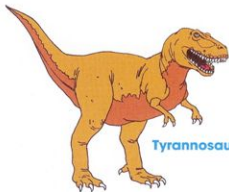
Velociraptor



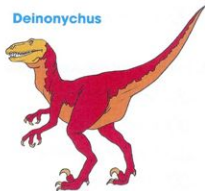
Saltasaurus



Protoceratops



Tyrannosaurus







Deinonychus

What Did Dinosaurs Use Their Claws For?





Hunters, or predators, such as Utahraptor, used the huge, knifelike claws on their hands and feet to kill prey. The crocodile-jawed Baryonyx may have used its enormous thumb claws to scoop fish out of the water for food. Most plant-eating dinosaurs, such as Iguanodon, used their broad, flat claws to dig up plants and to protect themselves from attackers.

**Iguanodon****Tyrannosaurus****Baryonyx****Deinonychus**





1. Carnivores used their claws for _____.

-  A digging up plants
-  B attacking prey
-  C climbing trees
-  D swimming





2. The claws of carnivores were _____.

-  A broad and flat
-  B large and round
-  C huge and knifelike
-  D flat and curved





3. Herbivores used their claws for _____.

-  A swimming
-  B climbing trees
-  C attacking prey
-  D digging up plants





4. The claws of herbivores were _____.

-  A flat and curved
-  B broad and flat
-  C huge and knifelike
-  D large and round

5. A predator is something that _____.

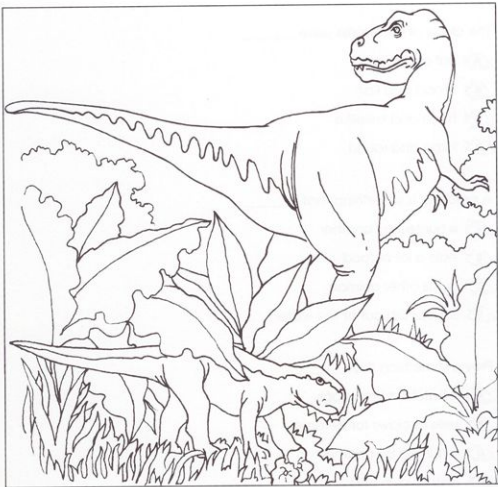
-  A is hunted by another
-  B eats a lot of food
-  C hunts other animals
-  D scoops fish out of the water

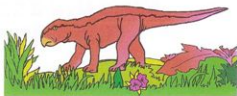
6. Prey is something that _____.

-  A is hatched from eggs
-  B uses its claws for defense
-  C is hunted by another
-  D eats its own kind

What Is Happening?

Tarbosaurus is looking for food. What is Psittacosaurus doing? What do you think will happen next? Color the picture below, then write a story about this picture on the next page.





Why Did Some Dinosaurs Have Armor Plates?

Some plant-eating dinosaurs, called **ankylosaurs**, had hard scales and bony plates all over their bodies—even their eyelids! This **armor** protected them from the bites and claws of meat-eaters. Only their underbellies were unprotected, so predators would have to flip them over to bite or claw them.

Ankylosaurus, for example, was covered with thick plates and bony spikes that a predator couldn't bite through. It also had a bony club on its tail that it used as a weapon.

Daspletosaurus



Ankylosaurus

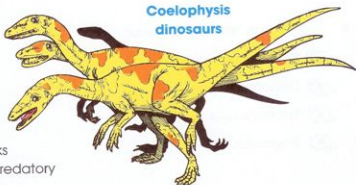
1. What are the hard scales and bony plates on some dinosaurs called?

2. What kind of dinosaurs had hard scales and bony plates?

Did Dinosaurs Live Alone or In Groups?

Scientists think that many plant-eating dinosaurs lived in groups to protect themselves from predators. Proof of this has been found in fossil beds containing many *Maiasaura*, both young and adult.

Clusters of fossil bones from some meat-eaters, such as *Coelophysis*, show that they formed groups as well. Other meat-eaters may have formed temporary packs for hunting, but many predatory dinosaurs hunted alone.



1. Why do scientists think that many plant-eating dinosaurs lived in groups?

2. How do scientists know that some dinosaurs lived in groups?

3. Why do scientists theorize that some meat-eating dinosaurs formed groups?

4. Why do scientists feel that some meat-eating dinosaurs hunted by themselves?

5. What are some modern-day animals that live in groups?

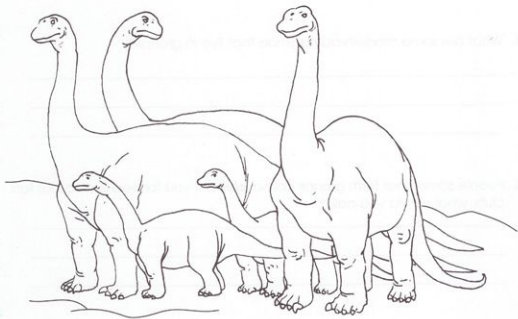
6. People sometimes form groups called **clubs**. If you formed a dinosaur fan club, what would you call it?

What Is a Group of Dinosaurs Called?

The groups that some dinosaurs lived in are called herds. Fossil tracks show that when some herds migrated, or moved, they kept their young dinosaurs in the middle of the pack.

Why would this be a good way for some dinosaurs to protect their young?

Color the picture below any way you like.



What Is the Secret Word?

Cross out the letters that spell the name of each of these items pictured below. Then, use the remaining letters to complete the sentence.



e g h g



h o r e n



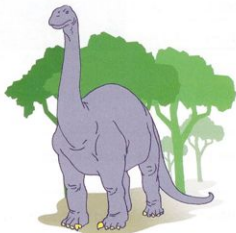
b r o n e



t r e d e

Some dinosaurs, such as this sauropod, travel in a

_____ for safety.

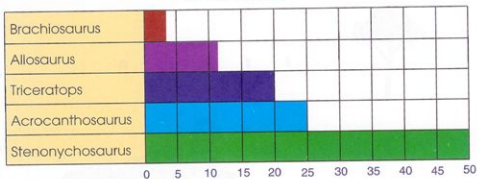


How Fast Did Dinosaurs Run?

Some dinosaurs protected themselves by running away from other dinosaurs. Running fast also helped some carnivores catch slow-moving dinosaurs. Scientists figured out the speed that a dinosaur ran by measuring the distance between its tracks and by studying the length of its legs. Scientists found that dinosaurs with long legs could probably run faster than dinosaurs with short legs.

The graph below shows how fast some dinosaurs may have been able to run. Use the graph to answer the questions below.

Miles Per Hour



- Which dinosaurs on the graph could run faster than Allosaurus?

- Which dinosaur could run faster, Acrocanthosaurus or Triceratops?

- Which dinosaur could run faster than any other dinosaur on the graph?

Word Search Activity

Use the word list to help you find the words about dinosaurs that are hidden in the block below. Some of the words are hidden backward or diagonally.

M	Z	N	X	B	B	E	R	O	V	I	N	R	A	C	S
L	A	K	S	J	O	H	D	H	F	S	G	P	Q	C	O
W	I	S	E	U	N	R	E	Y	T	Z	L	C	A	B	M
A	D	G	W	J	Y	L	Q	R	T	A	I	L	S	E	T
A	U	O	H	A	P	X	V	N	D	V	E	F	I	H	J
I	C	W	O	R	L	Y	S	I	P	S	M	B	C	R	Z
H	L	J	R	G	A	C	P	D	A	P	I	Y	E	R	F
C	O	R	N	I	T	H	I	S	C	H	I	A	S	W	N
S	V	X	S	K	E	H	K	F	S	O	U	R	N	T	E
I	Q	X	V	N	S	S	E	F	H	K	W	M	E	R	P
R	Y	I	K	A	L	S	S	K	D	J	F	O	F	G	A
U	P	Q	O	W	H	E	R	B	I	V	O	R	E	I	C
A	E	U	R	Y	T	Z	M	X	N	C	B	V	D	T	K
S	R	E	D	N	I	R	G	Y	R	U	E	I	W	O	S
Q	P	L	R	I	P	P	E	R	S	A	K	S	J	D	H
H	F	G	V	M	Z	N	S	R	E	P	P	I	N	X	V

WORD LIST

ARMOR
BONY PLATES
CARNIVORE
CLAWS
DEFENSE
FRILLS

GRINDERS
HERBIVORE
HERDS
HORNS
NIPPERS
ORNITHISCHIA

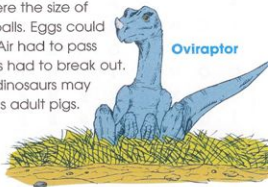
PACKS
RIPPERS
SAURISCHIA
SCALES
SPIKES
TAILS







How Did Dinosaurs Reproduce?

Dinosaurs laid eggs in nests on the ground. Scientists think that some dinosaurs stayed with their eggs until they hatched. Small dinosaurs, such as Oviraptor, may have sat on their eggs much like chickens do. Many dinosaurs, though, probably covered their eggs with sand and plants to keep them warm and left them behind.





Dinosaur eggs ranged in size. Some were the size of golf balls. Others were the size of footballs. Eggs could not have been too large or too thick. Air had to pass through the shells and young dinosaurs had to break out. That is why some scientists think giant dinosaurs may have given birth to live young as big as adult pigs.




1. How did dinosaurs reproduce?

-  A They laid eggs in the water.
-  B They gave birth.
-  C They laid eggs in caves.
-  D They laid eggs in nests.

2. Why did some dinosaurs sit on their eggs?

-  A to hide the color of their eggs
-  B to keep their eggs warm until they hatched
-  C to alert predators of the eggs
-  D to keep them clean

3. Where did dinosaurs make their nests?

 A in tree branches

 B in the water

 C on the ground

 D in a cave

4. Why couldn't dinosaur eggs be too large or too thick?


 A so air could get in the shells and babies could break out


 B so the eggs could be hidden easily

 C so the eggs would not roll around

 D because no big, thick eggs have been found

5. Why did scientists think that giant dinosaurs gave birth to live babies?

 A They thought the eggs would have been fossilized.

 B They never found the remains of dinosaur eggs.

 C The eggs would have been too large and too thick for the babies to hatch.

 D They thought only birds laid eggs.

6. What modern-day animals lay eggs?

 A tigers

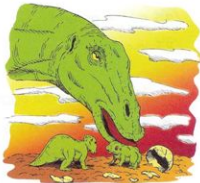
 B elephants

 C turtles

 D hamsters

Did Dinosaurs Take Care of Their Young?

Scientists think that some dinosaurs simply covered their eggs and walked away. They also think that other dinosaurs protected their eggs and cared for their young. Fossilized nests of *Maiasaura*, a plant-eater, have been found containing the fossils of many helpless baby dinosaurs. Scientists think that one or both parents protected these youngsters and brought them food.



Maiasaura

Other baby dinosaurs hatched with well-developed legs. Scientists believe these youngsters left the nest as soon as they hatched to find their own plants to eat.

1. What proof do scientist have that some dinosaurs took care of their young?

2. Why do scientists believe that some babies left their nests as soon as they were born?

3. Maiasaura means "good mother lizard." Why do you think scientists chose this name?

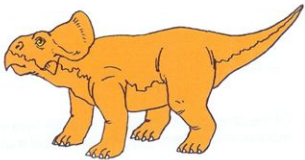
4. Of the dinosaurs that did not care for their young, do you think there were more or less of them than the dinosaurs that protected their young? Why?

5. Name some modern-day animals that take care of their young.

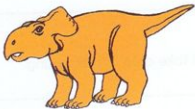
6. How did your parents take care of you when you were a baby?

Did Baby Dinosaurs Look Like Their Parents?

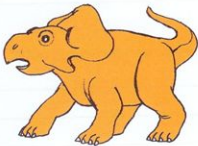
Most dinosaurs looked very much like their parents when they were born, but some features, such as horns and frills, took time to develop. This is how an adult Protoceratops looked.



Number the pictures in order to show how a baby Protoceratops grew.









Crossword Activity

Read the clues about dinosaurs. Then, complete the puzzle using the word list below.

ACROSS

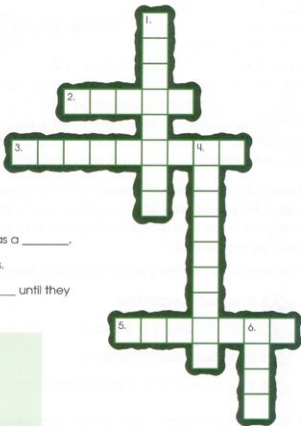
2. Dinosaurs laid their eggs in _____ on the ground.
3. This dinosaur name means "good mother lizard."
5. Some baby dinosaurs left the nest as soon as they _____.

DOWN

1. A dinosaur egg could be as big as a _____.
4. Dinosaurs _____ by laying eggs.
6. Some dinosaurs sat on their _____ until they hatched.

WORD LIST

EGGS
FOOTBALL
HATCHED
MAIASAURA
NESTS
REPRODUCE



When Were Dinosaurs First Discovered?

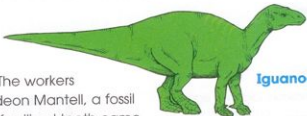
The first fossilized dinosaur teeth were discovered by

rock quarry workers in

England in the early 1820s. The workers

brought the fossils to Dr. Gideon Mantell, a fossil collector, who thought the fossilized teeth came

from a huge lizard that no longer existed. Because the teeth resembled iguana teeth, Dr. Mantell named the animal **Iguanodon**, which means "iguana tooth."



Iguanodon

Around the same time, Professor William Buckland described an animal called **Megalosaurus**, which means "big lizard." Scientists later discovered that Iguanodon was a plant-eating dinosaur and Megalosaurus was a meat-eating dinosaur.

1. Where were the first fossilized dinosaur teeth found?



in a nest in Argentina



in a rock quarry in England



in an aquarium in Australia



in a museum in the United States

2. Who named the dinosaur whose teeth were the first found?



Professor William Buckland



Dr. Dino Saur







Dr. Gideon Mantell







Professor Pal E. Ontologist





3. Why was the first named dinosaur called Iguanodon?

-  Because it looked like an iguana.
-  Because it looked like a lizard.
-  Because its teeth looked like those of an iguana.
-  Because it was found next to an Iguanodon nest.

4. What dinosaur did Professor William Buckland first describe?

-  Iguanodon
-  Tyrannosaurus
-  Megalosaurus
-  Troödon

5. Why were dinosaurs originally called lizards?

-  They had scales like lizards.
-  Their bones were fossilized.
-  They were green.
-  Their teeth and bones resembled those of lizards.

6. Which animal's name means "big lizard"?

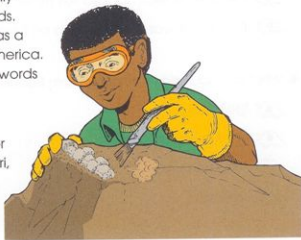
-  Troödon
-  Iguanodon
-  Tyrannosaurus
-  Megalosaurus



How Are Dinosaurs Named?

Names for new animals are usually created from Latin or Greek words. Giganotosaurus, for example, was a huge dinosaur found in South America. Its name comes from the Greek words **gigas** (giant), **notos** (south), and **sauros** (lizard).

Dinosaurs can also be named for people. Zuniceratops christopheri, found in New Mexico, was named for the Zuni Indians and for nine-year-old Christopher Wolfe who helped discover the fossils.



1. What languages are usually used to name new animals?

2. What does the name Giganotosaurus mean?



3. Has a dinosaur ever been named after a person? If so, name the dinosaur and the person, or persons, it was named for.

4. Are dinosaurs found all over the world? If so, why?

5. Do you think dinosaurs have different names in different countries? Explain.

6. If a dinosaur was named after you, what would you want it to be called?



What Is In a Name?

Did you know that most dinosaur names tell us something about the animal? Look at the list of name meanings and the pictures on this page and the next. Match the correct meaning to the dinosaur names. Write the letters in the boxes next to the dinosaur names.

Name Meanings

- | | | |
|--------------------------------------|----------------------------|----------------------------------|
| A. Plated or Roofed Creature | E. Duck Creature | H. Pretty Jaw |
| B. Fish Creature | F. Helmet Creature | I. Spiked Creature |
| C. Three-horned Face Creature | G. Armored Creature | J. Single-horned Creature |
| D. Terrible Creature | | |


☐

Deinonychus


☐

Stegosaurus


☐

Corythosaurus


☐

Styracosaurus



Triceratops



Panoplosaurus



Ichthyosaurus



Monoclonius



Anatosaurus



Compsognathus

What Were Duck-billed Dinosaurs?

Hadrosaurs, or duck-billed dinosaurs, were plant-eaters that lived in many parts of the world. They had wide, duck-like mouths and rows of teeth in their cheeks. Scientists believe duckbills were able to make honking or bellowing noises.

Different kinds of duckbills had different head ornaments. Some had tall spines, while others had crests or bony lumps. Some had no ornaments at all. Scientists think that duckbills cared for their young and traveled in herds.



Corythosaurus



Lambeosaurus



Parasaurolophus



Saurolophus



Tsintaosaurus

1. The group of duck-billed dinosaurs is called _____.



Parasaurolophus



hadrosaurs



Corythosaurus



Tsinataosaurus

2. What kind of noises did duck-billed dinosaurs make?



honking or bellowing



barking or quacking



howling or singing



chirping or whistling

3. Hadrosaurs were _____.



herbivores



carnivores



siblings



friends

4. Why were hadrosaurs called duckbills?



They had webbed feet.



They had feathers.



They had duck-like mouths.



They liked to be around water.

5. Duckbills had these types of head ornaments.



horns or spikes



frills, armor plates, or curled horns



crests, bony lumps, or spines



crests or egg-shaped bumps

6. Duckbills traveled _____.



with a buddy



by themselves



as a herd



when the wind changed

What Were Parrot-beaked Dinosaurs?

Psittacosaurus, or parrot-beaked dinosaurs, had a long beak at the front of their mouths. Psittacosaurus were plant-eaters and used their beak and teeth to snip off vegetation. They could not chew well, so they used **gastroliths**, or stomach stones, to crush food. All known parrot-beaked dinosaurs lived in what is now Asia, and none were longer than about 6 feet. Psittacosaurus are related to dinosaurs that have horns and bony frills around their necks, such as Triceratops.



Psittacosaurus

1. What are parrot-beaked dinosaurs called?

2. What did parrot-beaked dinosaurs use their beaks for?



3. How did psittacosaurus use gastroliths?

4. Do you think that parrot-beaked dinosaurs would have problems eating if they were carnivores? Why?

5. Where did parrot-beaked dinosaurs live?

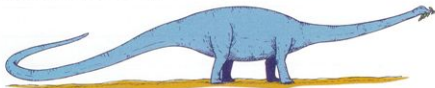
6. What other kinds of dinosaurs are psittacosaurus related to?



What Were Long-Necks?

Sauropods, or long-necks, were plant-eating dinosaurs with long necks and tails. Found all over the world, long-necks were the largest known dinosaurs.

The longest sauropod may have been *Seismosaurus*, from what is now Mexico. *Seismosaurus* was about 150 feet in length—as long as 10 cars—and weighed around 30 tons, or more than four African elephants. Sauropods walked on four legs and usually had no armor. Scientists think that their enormous size and herding habits kept them safe from meat-eaters.







Seismosaurus





1. Long-necked dinosaurs are also known as _____.

-  A *Seismosaurus*
-  B African elephants
-  C hadrosaurs
-  D sauropods

2. Long-necks were _____.

-  A carnivores with short tails
-  B herbivores with long necks and tails
-  C carnivores with long necks and tails
-  D herbivores with short tails

3. How long was Seismosaurus?

-  A about 70 feet
-  B as long as 15 cars
-  C about 150 feet
-  D about 110 feet


4. How much did Seismosaurus weigh?

-  A 100 tons
-  B 100 pounds
-  C 30 tons
-  D 300 pounds

5. What kept sauropods safe from predators?

-  A their size and herding habits
-  B their clubbed tails
-  C their speed
-  D their long necks

6. What modern-day animals have long necks?

-  A African elephants
-  B giraffes
-  C snakes
-  D zebras

What Were Ostrich Dinosaurs?

Ornithomimosaurs were meat-eating dinosaurs with beaks, small heads, long necks, and long legs. Scientists think that ornithomimosaurs looked and ran like ostriches and sometimes call them **ostrich dinosaurs**. *Struthiomimus*, an ornithomimosaur from what is now North America, was probably one of the smartest and fastest dinosaurs. It was about 12 feet long and as tall as a human adult.



Struthiomimus

1. Why are ornithomimosaurs called ostrich dinosaurs?

2. Describe how ornithomimosaurs looked.

3. What features helped ornithomimosaurs catch its prey?

4. Were ornithomimosaurs herbivores or carnivores?

5. Where was Struthiomimus from?

6. How long and tall was Struthiomimus?



What Were Curved-claw Dinosaurs?





Velociraptors belonged to a group of meat-eating dinosaurs called **dromaeosaurs**. Dromaeosaurs had an enormous curved claw on the second toe of each foot for attacking prey. They also had birdlike skeletons, and scientists think they were closely related to birds. Found in what is now Asia, Velociraptor was about 6 feet in length. It was probably intelligent, fast, had good eyesight, and may have hunted in packs.







Velociraptor

Thescelosaurus





1. Curved-claw dinosaurs are called _____.

-  A Struthiomimus
-  B dromaeosaurs
-  C ornithomimosaur
-  D Triceratops




2. They had a curved claw on _____.

-  A the second finger of each hand
-  B their right hands only
-  C the second toe of each foot
-  D the end of their tails

3. Their curved claw was used for _____.

-  A digging up plants
-  B breaking open fruit
-  C attacking prey
-  D building shelter

4. Scientists think that the dromaeosaurs were closely related to _____.

-  A tigers
-  B birds
-  C crocodiles
-  D elephants

5. Dromaeosaurs had birdlike _____.

-  A wings
-  B skeletons
-  C hips
-  D beaks

6. Velociraptor is a dromaeosaur that was from _____.

-  A Australia
-  B England
-  C Asia
-  D South Africa

Get a Clue!

Unscramble the words below. Then, use the words to fill in the answers to the questions.

sHroadursa

undlgaoon

ekerG

tsgrilohsar

psarousdo

rmustthSiomui

vrudec wcla

ssgaleauMrou

1. The first dinosaur teeth found were from _____.
2. Dinosaur names are created from Latin or _____ words.
3. _____ had wide, duck-like mouths and rows of teeth in their cheeks.
4. Psittacosaurus used _____ to crush food in their stomachs.
5. Long-necked dinosaurs are called _____.
6. _____, an ostrich dinosaur, was one of the smartest and fastest dinosaurs.
7. Velociraptors had an enormous _____ on the second toe of each of their feet.
8. Professor William Buckland described a dinosaur called _____.



Word Search Activity

Use the word list to help you find the words about dinosaurs that are hidden in the block below. Some of the words are hidden backward or diagonally.

S	U	R	U	A	S	O	M	S	I	E	S	M	W	Z	G
R	R	N	L	O	N	G	N	E	C	K	S	X	I	B	I
U	O	U	C	B	V	L	A	S	K	D	T	V	L	D	G
A	C	J	A	G	H	P	Q	O	W	N	E	H	L	E	A
S	K	I	R	S	T	U	Y	V	E	L	Z	O	I	K	N
O	Q	C	X	M	O	B	N	M	O	P	Q	N	A	A	O
E	U	O	W	I	E	M	A	C	U	R	U	K	M	E	T
A	A	T	Y	L	A	N	I	K	S	J	D	I	B	B	O
M	R	H	F	G	R	R	M	M	Z	N	X	N	U	T	S
O	R	B	C	O	A	V	Y	T	O	U	R	G	C	O	A
R	Y	I	D	P	E	O	W	P	Q	H	H	G	K	R	U
D	J	A	T	H	C	I	R	T	S	O	T	F	L	R	R
K	E	O	S	J	S	A	L	V	B	C	N	I	A	A	U
H	R	X	D	U	C	K	B	I	L	L	E	D	N	P	S
S	R	U	A	S	O	C	A	T	T	I	S	P	D	R	M
Z	Y	G	I	D	E	O	N	M	A	N	T	E	L	L	O

WORD LIST

DROMAEOSAURS

HONKING

PSITTACOSAURS

DUCK-BILLED

LONG-NECKS

ROCK QUARRY

GIDEON MANTELL

ORNITHOMIMOSAURS

SEISMOSAURUS

GIGANOTOSAURUS

OSTRICH

VELOCIRAPTORS

HEAD ORNAMENT

PARROT-BEAKED

WILLIAM BUCKLAND







What Are Fossils?

Fossils are the remains—or pieces left behind—of plants and animals that have been preserved in the earth. There are different types of fossils, including **true form fossils** and **trace fossils**. True form fossils are formed from hard animal parts such as shells, bones, or teeth. Trace fossils are formed from impressions left behind from an animal such as skin, footprints, burrows, nests, or droppings. Trace fossils do not include hard parts but are evidence that a living thing existed. They provide a record of an animal's behavior or movement.







One of the ways fossils are formed is when the hard parts of animals are buried for millions of years. Mineral-rich water soaks into the remains and the minerals replace the original hard parts. The remains turn to stone. Most fossils form deep underground. They are exposed when the overlying rock wears away or are pushed up to form mountains.




1. What are fossils?

-  **A** pieces of rock
-  **B** remains of plants or animals
-  **C** muscle tissues
-  **D** parts of a bicycle





2. What does the word evidence mean?

-  **A** trace fossils
-  **B** behavior
-  **C** proof
-  **D** true form fossils





3. Where do most fossils form?

-  A on hills
-  B in trees
-  C deep underground
-  D in water

4. What are true from fossils?

-  A hard animal parts
-  B soft animal parts
-  C plants
-  D footprint impressions

5. What are trace fossils?

-  A hard animal parts
-  B impressions
-  C bones
-  D teeth

6. Trace fossils are evidence that a living thing _____.

-  A danced
-  B sang
-  C ate
-  D existed

What Do Trace Fossils Look Like?

The pictures below are examples of different kinds of trace fossils. Draw a line from the description of the kind of trace fossil to its picture.

A dinosaur makes footprints in the soft mud. The mud hardens and turns into rock.

The eggs of some dinosaurs have been changed into fossil eggs.

Sometimes the skin of a dinosaur is changed into a fossil.



Carefully study these footprint impressions. Draw a line from the dinosaur to its correct footprints.



Triceratops



Megalosaurus



Parasaurolophus

What Do Fossils Tell Us?

It's exciting when a scientist finds a dinosaur fossil. The fossil might be from a dinosaur no one has ever discovered before.

It might take years for scientists to put together most of a dinosaur's bones. The lumps, bumps, and scars on the bones give them clues as to what the dinosaur might have looked like. These marks on the bones show where muscles were attached. By looking at the whole skeleton and the lumps, bumps, and scars on each bone, scientists can come up with a theory about the shape of the dinosaur's body.

The two skeletons below are make-believe dinosaurs that nobody has ever found. Study the skeletons. Use colored pencils, crayons, or markers to draw right over the skeleton to show what these dinosaurs might have looked like. Then, name your dinosaurs.



What Are Scientists Who Study Dinosaurs Called?

Scientists who study **fossils** are called **paleontologists**. Dinosaur paleontologists search for dinosaur remains all over the world. When they discover dinosaur fossils, paleontologists make notes about their find and map the area where they made their find. Then they carefully remove the fossils, pack them in plaster jackets, and take them to laboratories for study.



1. Where do paleontologists search for dinosaur fossils?

2. What do paleontologists do when they discover a fossil?

3. Do paleontologists only study dinosaur fossils? If not, what else do they study?

4. Why do you think fossils are wrapped in plaster jackets before they are sent to laboratories?

5. Why do you think it is important for scientists to take notes about their finds?

6. What kind of tools do you think paleontologists use while hunting for fossils?

Where Do Paleontologists Look for Dinosaur Fossils?

Paleontologists look for dinosaur fossils all over the world. Most fossils are found in **sedimentary rocks**. Sedimentary rocks are made from layers of **sediments**—mud, sand, and gravel—that harden into stone. When dinosaurs died, their remains were sometimes covered with windblown sand or washed into rivers or lakes. If the remains were quickly covered with sediments, the bones were preserved. As the sediments hardened into rock, the bones became fossils.



1. Most fossils are found in _____.



water



trees



leaves



sedimentary rocks

2. Sedimentary rocks can be made up of any of these sediments except _____.



mud



tree bark



sand



gravel

3. To have a chance of becoming fossils, dinosaur bodies had to be _____ after they died.



cleaned



left out in the sun



kept warm



covered quickly

4. As sediments hardened into rocks, the bones became _____.



sedimentary rocks



fossils



rocks



sandstone

5. Some dinosaur remains were washed into _____.



rivers or lakes



mountains



rocks



sand

6. Why did bones need to be covered by sediments to become fossils?



to keep them out of the way



to preserve them



to slow the fossil process down



so that scientists could find them

To What Group Do Dinosaurs Belong?

Before the 1800s, people who found dinosaur bones and teeth did not know what they were. Little by little, scientists realized that these fossils were different from those of any other group of animals. These animals were somewhat like lizards, a type of reptile, but were generally much bigger. They decided to call this group **Dinosauria**. The name **dinosaur** comes from this word, which means "terrible lizards."

Why do you think "terrible lizards" was chosen for the name of dinosaurs?
What do you think paleontologists knew about dinosaurs at this time?

Over the years, paleontologists have been able to learn a lot about dinosaurs and other animals that lived a long time ago.

Why do you think paleontologists and other people continue to look for fossils today?



What Do Paleontologists Do When They Find a Fossil?

When paleontologists find fossils they want to study, they make notes about their find, map the area, and carefully dig the fossils out of the ground. The bones are wrapped in plaster so they won't break. Then they are sent to a laboratory. Once there, they are carefully unwrapped. Paleontologists study the fossils to find out what type of animal they belonged to and when it lived.

Sometimes paleontologists find a number of parts to a dinosaur's **skeleton**. The skeleton can be reconstructed, or put together, and shown in a museum.

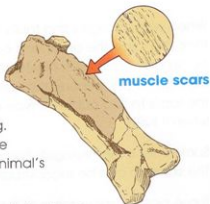
These pictures show some of the jobs paleontologists do. Number the pictures to show the order of when each job would be completed.



How Do Paleontologists Know How Dinosaurs Moved?

Paleontologists figure out how dinosaurs moved by studying their bones.

Muscle scars on dinosaur bones show where muscles were attached to the bones, and how big they were. Strong bones and larger muscles were needed for running and fighting. Studying **joints**, the places where bones come together, gives scientists an idea of how an animal's body could bend and turn.



Paleontologists also study the muscles of animals that were close relatives of dinosaurs, such as crocodiles and birds. Using all this information, scientists reconstruct dinosaur fossils and figure out how they moved.

1. Why do scientists study dinosaur bones?

2. What do muscle scars tell paleontologists?

3. Why did dinosaurs need strong bones and larger muscles?

4. Why do scientists study the joints of bone fossils?

5. What kind of modern-day animal muscles do paleontologists study?

6. What do scientists do with all the information they get from studying dinosaur bones and modern-day animals?



What Was Dinosaur Skin Like?

Impressions of dinosaur skin are sometimes preserved in rocks. They show that most dinosaurs probably had tough, scaly, waterproof skin, like other reptiles.



Polacanthus was an armored plant-eater. It had bumpy skin with bony spikes and plates for extra protection. Meat-eaters such as Carnotaurus had smooth scales, like that of a lizard. Some small meat-eaters may have had feathers like birds.

Scientists cannot determine the color of a dinosaur's skin from its fossils. They theorize though, that dinosaurs had various patterns and colors, just like today's reptiles.

1. Impressions of dinosaur skin can be preserved in _____.

 A water

 B rocks

 C trees


 D sand

2. The impressions show that most dinosaur scales were like _____.





 A bird feathers

 B those of other reptiles

 C lion fur

 D seal skin

3. What kind of dinosaur was Polacanthus?

-  A an unarmored herbivore
-  B a carnivore with armor
-  C a carnivore
-  D an armored herbivore





4. The skin of a Carnotaurus was _____.

-  A bumpy
-  B smooth and scaly
-  C rough and dry
-  D orange

5. Scientists think that some small meat-eaters may have had _____.

-  A armor plates
-  B spikes
-  C fur
-  D feathers

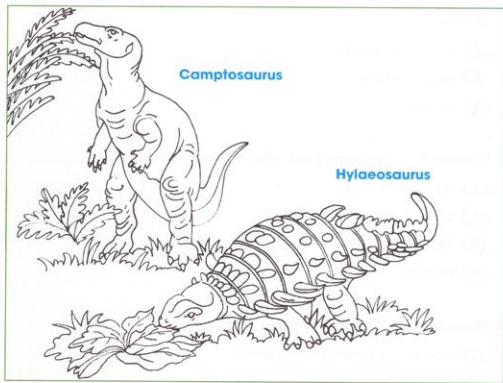
6. Paleontologists theorize that dinosaur skin _____.

-  A could have been different colors
-  B was brown
-  C was green and brown
-  D was green

What Color Were Dinosaurs?

Some people think that dinosaurs were green and brown. These colors would have allowed the dinosaurs to blend in with the plants and trees around them. Other people think the dinosaurs were very colorful, like some birds and lizards are today. Bright colors sometimes help an animal attract a mate.

Here is a picture of two dinosaurs. What colors do you think these dinosaurs were? Color the picture below how you think the dinosaurs would have looked.



Explain the colors you chose. _____

Word Search Activity

Use the word list to help you find the words about dinosaurs that are hidden in the block below. Some of the words are hidden backward or diagonally.

T	S	P	A	L	E	O	E	V	R	E	S	E	R	P	M
R	E	R	M	U	S	C	L	E	S	C	A	R	S	A	U
A	D	R	E	C	O	N	S	T	R	U	C	T	E	L	S
Q	I	S	R	N	I	L	T	E	P	R	B	O	M	E	C
Z	M	C	E	I	M	P	R	E	S	S	I	O	N	O	E
A	E	O	K	V	B	J	A	O	Y	E	R	D	B	N	K
R	N	N	S	K	E	L	E	T	O	N	U	I	Z	T	E
D	T	S	D	P	J	G	E	P	J	W	K	N	A	O	G
I	A	F	I	A	O	D	K	L	O	C	A	O	I	L	A
T	R	A	C	E	F	O	S	S	I	L	S	S	R	O	L
R	Y	I	U	T	K	S	K	F	N	Z	D	A	U	G	F
U	R	S	E	D	I	M	E	N	T	S	A	U	A	I	U
M	O	J	R	S	T	W	L	C	S	M	E	R	S	S	O
R	C	O	E	C	N	E	D	I	V	E	S	I	D	T	M
L	K	M	L	S	R	R	H	Q	T	F	L	A	O	S	A
T	R	U	E	F	O	R	M	F	O	S	S	I	L	S	C

WORD LIST

CAMOUFLAGE

MUSCLE SCARS

SEDIMENTS

DINOSAURIA

PALEONTOLOGISTS

SKELETON

EVIDENCE

PRESERVE

TERRIBLE LIZARDS

IMPRESSION

RECONSTRUCT

TRACE FOSSILS

JOINTS

SEDIMENTARY ROCK

TRUE FORM FOSSILS



Were Dinosaurs Warm-blooded or Cold-blooded?

Warm-blooded animals, such as mammals and birds, make enough heat from their body processes to keep their body temperature high. They can be active all the time.



Cold-blooded animals, such as crocodiles and frogs, do not make enough heat from their body processes to keep a high body temperature. They **absorb**, or draw in, heat from their surroundings to help them become active.

Paleontologists do not agree about whether dinosaurs were warm-blooded or cold-blooded. Some think fast-moving animals like dinosaurs must have been warm-blooded. Others think certain features of dinosaur bones prove they were cold-blooded. Many other scientists say dinosaurs were cold-blooded, but the active lifestyle of small dinosaurs and the huge size of big dinosaurs kept them warm.

1. Describe what makes an animal warm-blooded.

2. Describe what makes an animal cold-blooded.

3. Name some modern-day animals that are warm-blooded.

4. Name some modern-day animals that are cold-blooded.

5. Why do some paleontologists think that dinosaurs were warm-blooded?

6. Why do some paleontologists think that dinosaurs were cold-blooded?



Did Dinosaurs Have Good Eyesight?

Paleontologists study a dinosaur's skull to figure out how big different parts of its brain were. Large **sight areas** in the brain mean that a dinosaur had good eyesight. *Leaellynasaura* was a plant-eater that had sharp vision, perhaps to help it see in the dark. *Velociraptor* and *Oviraptor* also had good vision and may have hunted at night. It is likely that not all dinosaurs had good eyesight. Some plant-eating dinosaurs probably had a better sense of smell than of sight.



1. What do paleontologists study to figure out how big different parts of a dinosaur's brain were?

 their eyes

 their size

 their tail length

 their skulls

2. What is a sight area?





 An area in which everything is viewed.

 A dinosaur's field of vision.





 An area where dinosaurs have been found.

 An area in the brain that controls the sense of sight.





3. A large sight area in a dinosaur's skull meant _____.

-  it had bad eyesight
-  it had good eyesight
-  it had more than two eyes
-  it could not see color





4. Some paleontologists believe that Leaellynasaura could _____.

-  not see at all
-  see only during the day
-  see in the dark
-  see with only one eye

5. Scientists think that Oviraptor hunted _____.

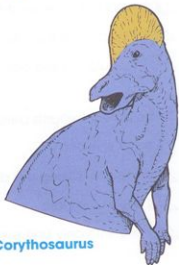
-  only during the day
-  at night
-  in the water
-  from the branches of trees

6. Did all dinosaurs have good eyesight?

-  Yes, all dinosaurs had large sight areas.
-  No, only carnivores had large sight areas.
-  No, only herbivores had good eyesight.
-  No, some dinosaurs had a better sense of smell.

Did Dinosaurs Make Sounds?

Skull bones show that many dinosaurs probably made sounds. Young dinosaurs may have squeaked or squealed, and older dinosaurs may have croaked, barked, or roared. The skulls of some duck-billed dinosaurs have fan- or tube-shaped **crests**, or tops. Paleontologists think these crests may have been echo chambers that helped the dinosaurs make sounds. Duckbills may have bellowed to attract mates, like a modern moose would.



Corythosaurus

1. What part of a dinosaur's remains did scientists use to determine how dinosaurs made sounds?

2. What kinds of sounds might some young dinosaurs have made?

3. What kinds of sounds might some older dinosaurs have made?

4. Paleontologists think that the crests on duck-billed dinosaurs may have been used as what?

5. Why do scientists think that duckbills made sounds?

6. Name some modern-day animals that make sounds to attract mates.



How Smart Were Dinosaurs?

To figure out how smart a dinosaur was, paleontologists compare the size of its brain to the size of its body. Scientists think dinosaurs that had large brains compared to their bodies were smart. Small, nimble meat-eaters, such as Troödon and Oviraptor, had big brains. Both guarded their eggs, and paleontologists think they were among the smartest dinosaurs. Giant long-necks, such as Brachiosaurus, had rather small brains. They probably walked slowly and performed only simple activities.



Troödon

1. To figure out how smart a dinosaur was paleontologists compare the size of its brain to the size of its _____.

 A head

 B feet

 C tail

 D body

2. The larger the size of a dinosaur's brain compared to the size of its body meant that _____.

 A the dinosaur was smarter than other dinosaurs

 B the dinosaur could only walk slowly

 C the dinosaur performed only simple activities

 D the dinosaur could not slow down

3. Small, nimble carnivores had _____.



small brains



large brains



average-sized brains



no brains

4. Scientists think that Troödon and Oviraptor did all of these except _____.



guard their eggs



eat plants



run quickly and nimbly



hunt other dinosaurs

5. To what group of dinosaurs does Brachiosaurus belong?



long-necks



duckbills



curved-claws



parrot-beaked

6. Which sentence does not describe what paleontologists believe about long-necks?



They walked slowly.



They had big brains.



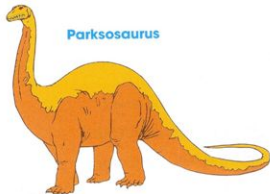
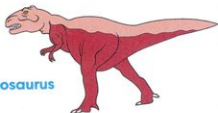
They had small brains.



They performed only simple tasks.

Am I Smart?

Which of the dinosaurs below do you think would have been "smart" dinosaurs? Circle the correct pictures.



Crossword Activity

Read the clues about dinosaurs. Then, complete the puzzle using the word list below.

DOWN

1. Animals whose bodies do not produce enough heat to keep them warm are called _____.
3. Animals that make enough body heat to keep their body temperatures high are called _____.
5. If a dinosaur had large _____, then it was believe to have had excellent sight.

ACROSS

2. Cold-blooded animals _____ heat from their surroundings.
4. Scientists think that _____ may have bellowed to attract mates.
6. Some duck-billed dinosaurs had _____ on the tops of their heads.

WORD LIST

COLD-BLOODED

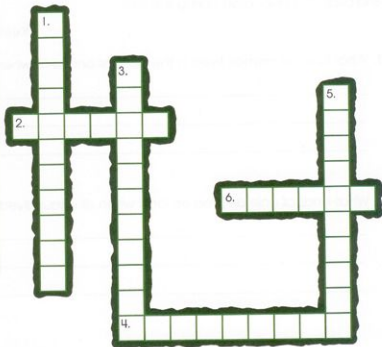
SIGHT AREAS

WARM-BLOODED

CRESTS

ABSORB

DUCKBILLS



What Other Kinds of Animals Lived When Dinosaurs Lived?

Many kinds of animals were alive during the Age of Reptiles—the time when dinosaurs lived. The oceans were filled with sponges, jellyfish, crabs, shrimp, snails, oysters, corals, sea stars, sea urchins, squid, and fish. The seas also contained swimming reptiles, like **pliosaurs**, **plesiosaurs**, and **ichthyosaurs**. The land provided homes for insects, spiders, centipedes, salamander-like amphibians, crocodiles, and turtles. Flying reptiles, like **pterosaurs**, filled the air. Lizards, snakes, small mammals, and birds also appeared during this time.



Enchodus



Kuehneosaurus

1. What kinds of animals lived in the oceans and seas when dinosaurs lived?

2. What kinds of animals lived on land when dinosaurs lived?

3. What kinds of flying animals lived when dinosaurs lived?

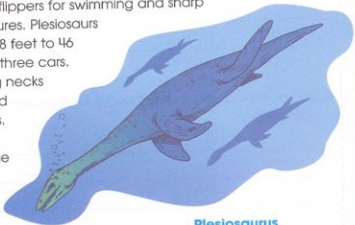
4. Do you think any of these different kinds of animals are alive today? If so, name them.

5. What kinds of animals first appeared during the Mesozoic Era?

6. What kind of defense did these animals have against the dinosaurs?





What Were Plesiosaurs?

Plesiosaurs were ocean-dwelling reptiles that lived during the Age of Reptiles. They had flippers for swimming and sharp teeth for eating sea creatures. Plesiosaurs ranged in size from about 8 feet to 46 feet—about the length of three cars. Some plesiosaurs had long necks and tiny heads. Others had short necks and big heads. Scientists do not know if plesiosaurs laid eggs on the beach, like sea turtles, or gave birth to live young, like most sharks.



Plesiosaurus





1. What are plesiosaurs?

-  ocean-dwelling sea hags
-  land-dwelling reptiles
-  ocean-dwelling reptiles
-  mountain-dwelling bears





2. When did plesiosaurs live?

-  Mesozoic Era
-  Permian Era
-  Cenozoic Era
-  Dinosaur Era





3. How did plesiosaurs swim?

-  A with their flippers
-  B with a partner
-  C with scuba gear
-  D with a surf board





4. Plesiosaurs could be as long as _____.

-  A 2 cars
-  B 8 feet
-  C 46 feet
-  D 1 car

5. How do scientists think plesiosaurs reproduced?

-  A They laid eggs.
-  B They gave birth.
-  C They cloned themselves.
-  D Scientists are unsure.

6. Which statement about plesiosaurs is correct?

-  A They all had long necks.
-  B They all laid their eggs on the beach.
-  C Some were short, and some were long.
-  D They gave birth to live young in the sea.

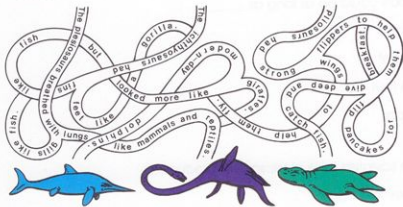
What Did Water-dwelling Creatures Look Like?

To find out what the three prehistoric sea creatures below looked like, follow the correct path. The correct path will also give you some interesting facts to help you answer the questions at the bottom of the page.

Plesiosaurs

Ichthyosaurs

Pliosaurus



Circle true (T) or false (F).

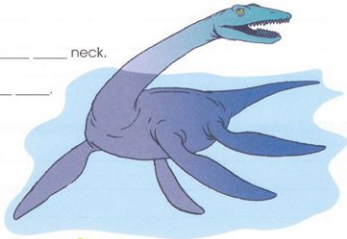
- T F** Plesiosaurs breathed with gills.
- T F** Ichthyosaurs looked very much like giant dolphins.
- T F** Most prehistoric sea creatures laid eggs.
- T F** Reptiles breathe air with their lungs.
- T F** Pliosaurs were meat-eating sea creatures.
- T F** Ichthyosaurs were big fish.

What Do Scientists Know About Plesiosaurus?

Plesiosaurus was about 10 feet long. It was not a dinosaur, but it did live during the same time period. Plesiosaurus lived in the sea, and it had flippers to help it move through the water. Plesiosaurus used its long, snake-like neck to search for fish and other small animals in the sea.

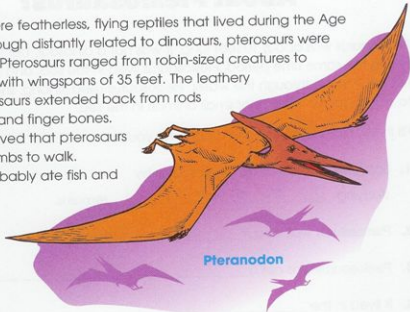
Fill in the blanks. The first one is done for you.

1. Scientists learned about Plesiosaurus by studying f o s s i l remains.
2. Plesiosaurus was about _____ feet long.
3. Plesiosaurus was not a _____.
4. It lived in the _____.
5. Plesiosaurus had _____ instead of legs.
6. It had a _____ neck.
7. It ate _____.



What Were Pterosaurs?

Pterosaurs were featherless, flying reptiles that lived during the Age of Reptiles. Though distantly related to dinosaurs, pterosaurs were not dinosaurs. Pterosaurs ranged from robin-sized creatures to large animals with wingspans of 35 feet. The leathery wings of pterosaurs extended back from rods made of arm and finger bones. Scientists believed that pterosaurs used all four limbs to walk. Pterosaurs probably ate fish and small animals.



Pteranodon

1. Describe the features of pterosaurs.

2. What are some of the differences between pterosaurs and dinosaurs?

3. How did pterosaurs move when they were on the ground?

4. What did pterosaurs eat?

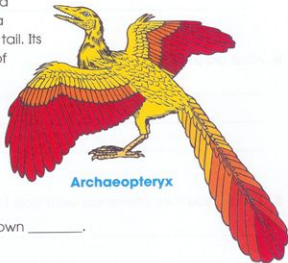
5. How do you think pterosaurs were able to catch their prey?

6. What modern-day animals are similar to pterosaurs?



What Was Archaeopteryx?

Archaeopteryx is the oldest known bird. It lived about 150 million years ago, during the Age of Reptiles. Archaeopteryx was about the size of a modern-day crow and had both bird and dinosaur features. Like a bird, it had wings, feathers, and a beak. Like a dinosaur, it had teeth and a bony tail. Its skeleton was also similar to those of some small dinosaurs. Most paleontologists think Archaeopteryx and other birds developed from a dinosaur ancestor and that modern birds are living dinosaurs.



Archaeopteryx

1. Archaeopteryx is the oldest known _____.

 A dinosaur

 B animal

 C bird

 D fish

2. It lived about _____ years ago.





 A 75 million

 B 256 million

 C 14 million

 D 150 million

3. How big was an Archaeopteryx?

-  about the size of a modern-day crow
-  about the size of a modern-day eagle
-  about the size of a modern-day chicken
-  about the size of a modern-day vulture





4. Archaeopteryx had all of these features in common with a bird except _____.

-  wings
-  teeth
-  feathers
-  a beak

5. Archaeopteryx had all of these features in common with a dinosaur except _____.

-  teeth
-  wings
-  a bony tail
-  a similar skeleton to some small dinosaurs

6. Most paleontologists believe that _____.

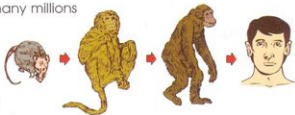
-  modern birds are ancestors of dinosaurs
-  dinosaurs developed from ancient birds
-  reptiles and birds are the same
-  Archaeopteryx is a living bird

Were There Any People When Dinosaurs Lived?

Dinosaurs lived long before people appeared on earth. However, the theory of evolution suggests that distant ancestors of human beings, the first **primates**, a kind of mammal, appeared at the end of the dinosaur age. The first primates were probably similar to tree shrews—squirrel-sized animals with pointed noses, long tails, and sharp claws.

Most scientists think that over many millions of years, these early primates

evolved, or developed, into advanced primates—monkeys, then apes, then humans. Scientists theorize that the first human beings appeared about 5 million years ago.



evolution of primates

1. Did human beings live during the time of the dinosaurs?

2. What is a primate?

3. Describe the first primates.

4. How did the first primates evolve into human beings?

5. Did the early primates evolve quickly or slowly? How do you know?

6. When did the first human beings appear on earth?



Why Did Dinosaurs Disappear?

Nobody knows exactly why dinosaurs became **extinct**, or died out. Below are a few theories that scientists have suggested. One or more of these events may have caused the extinction of the dinosaurs.

Asteroid Crash Theory: An asteroid, a large rocky object from space, smashed into the earth. The collision created a cloud of dust that surrounded the planet and blocked the sun. The earth grew cold, and most plants died. The dinosaurs froze or died from starvation.





Volcano Theory: Volcanic eruptions over millions of years produced clouds of dust that surrounded the earth. The dust blocked the sun. The planet grew cold, and most plants died. The dinosaurs froze and died from starvation.

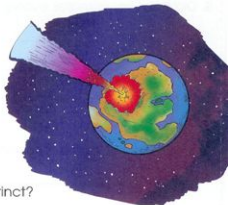
Climate Theory: Continental movements and shrinking oceans broke up the areas where dinosaurs lived and made the climate cooler. The dinosaurs froze to death.

1. What does extinct mean?





-  to die out
-  to reappear
-  to think of a theory
-  to freeze

2. What caused the dinosaurs to become extinct?





-  An asteroid crashed into the earth.
-  Volcanic eruptions all over the world occurred over millions of years.
-  No one knows exactly what happened.
-  The earth's climate changed.







3. The Asteroid Crash Theory suggests that _____.

-  volcanoes erupted and the smoke blocked the sun
-  the oceans grew smaller and the earth got cold
-  aliens came to earth and took the dinosaurs away with them
-  an asteroid smashed into the earth and dust blocked the sun





4. The Volcano Theory suggests that _____.

-  volcanoes erupted and the smoke blocked the sun
-  an asteroid smashed into the earth and dust blocked the sun
-  the oceans grew smaller and the earth got cold
-  dinosaurs lived near volcanoes, and when the volcanoes erupted, the dinosaurs were too close

5. The Climate Theory suggests that _____.

-  an asteroid smashed into the earth
-  the earth became hot and all the water disappeared
-  continental movements broke up the areas where dinosaurs lived
-  dust in the air blocked the sun

6. What do the three theories mentioned have in common?

-  Asteroids hit the earth.
-  Dust blocked the sun.
-  The dinosaurs froze.
-  The plants died.

What Other Extinction Theories Have Been Suggested?

A few other theories of why the dinosaurs became extinct are listed below. Each theory has a **cause** and an **effect**. A cause is a change that happened on earth and an effect is what resulted from the change on earth.

Draw a line from each cause to its effect.

Cause

Effect

Small, fast mammals that liked to eat eggs quickly spread around the world.

Dinosaurs were cold-blooded. They couldn't find places to hibernate. They had no fur or feathers to keep themselves warm. They froze to death.

New kinds of flowering plants started to grow on the earth. These plants had poison in them that the dinosaurs could not taste.

Fewer and fewer baby dinosaurs were born.

When dinosaurs were living, the earth was warm all year long. Suddenly the earth became cooler with cold winter months.

The dinosaurs ate poison without even knowing it and they died.



What Do You Think Happened to the Dinosaurs?

No one knows for sure why the dinosaurs died out, but after surviving for 150 million years or more, the dinosaurs were gone. Can you think of some reasons that the dinosaurs disappeared? Write your own theory on the lines below.



Are New Kinds of Dinosaurs Still Being Found?

Paleontologists are finding new kinds of dinosaurs all the time. Every year, they go on **dinosaur digs**, or fossil hunts, in areas that contain sedimentary rocks. Dinosaur digs have been done in Africa, Antarctica, Argentina, Canada, China, Madagascar, Mongolia, and the United States. Scientists think there are hundreds of kinds of dinosaurs still to be discovered.



1. In what countries have scientists dug for dinosaurs fossils?

2. What areas do paleontologists look for fossils? Why do they look there?

3. Why do scientists think that there are still more kinds of dinosaurs to be found?

4. Why is a fossil hunt called a dinosaur dig?

5. Besides fossils, what do you think scientists find during a dinosaur dig?

6. If you could go on a fossil hunt in one of the countries mentioned above, which one would you go to? Why?

What Are Some Living Relatives of Dinosaurs?

All living reptiles, such as turtles, crocodiles, snakes, and lizards, are distantly related to dinosaurs. The closest relatives of dinosaurs, though, are birds. In fact, most paleontologists believe that birds are living dinosaurs.

In China, paleontologists discovered the fossils of dinosaurs that had feathers but could not fly, such as Caudipteryx. Scientists also discovered the fossils of an ancient bird that looked like a small dinosaur. They think some small dinosaurs developed wings and the ability to fly and then became birds.



Caudipteryx

1. What are the closest living relatives to dinosaurs?

 reptiles

 humans

 ants

 birds

2. Name the dinosaur that had feathers but could not fly.

 Caudipteryx

 Plesiosaurus

 primates

 Archaeopteryx

3. Where was the dinosaur that had feathers but could not fly found?



North America



China



Africa



Japan

4. Paleontologists believe that birds are _____.



flying cats



living dolls



swimming sharks



living dinosaurs

5. Some small dinosaurs may have developed _____ and then became birds.



wings



beaks



feathers



eggs

6. How do scientists figure out which animals are closely related to each other and which are not?



by comparing weight



by comparing leg length



by comparing appearance



by comparing eye color

Keeping Up With the Dinosaurs

Read the dinosaur facts below. Then, write true (T) or false (F) in the blanks before the sentences at the bottom of the page.

Paleontologists believe that the first dinosaurs evolved on earth about 245 million years ago and became extinct about 65 million years ago. All dinosaurs were land-living creatures. The gigantic prehistoric sea creatures, such as ichthyosaurs and plesiosaurs, were not really dinosaurs. Pterosaurs were not really dinosaurs either. They were flying reptiles that looked like lizards with wings.

The word dinosaur means "terrible lizard," but dinosaurs were not lizards. Modern science now links dinosaurs to birds. Today's birds are thought to be the closest relatives to the dinosaurs. Crocodiles are also thought to be more distant relatives of the dinosaurs. Scientists believe all animals and plants living on earth today are descendants of creatures that lived when dinosaurs roamed the earth.

True (T) or false (F)?

1. _____ The first dinosaurs evolved on earth about 65 million years ago.
2. _____ Ichthyosaurs were dinosaurs.
3. _____ Dinosaurs were not lizards.
4. _____ Scientists believe birds are related to dinosaurs.
5. _____ Some dinosaurs were flying reptiles.

A Dinosaur Tale

Study the prehistoric animals pictured below. Then, complete each category with words that you associate with these animals. A few examples are already written under each category. Use the words to compose a poem or short story about these animals.

Nouns

tail

teeth

head

Verbs

walk

run

eat

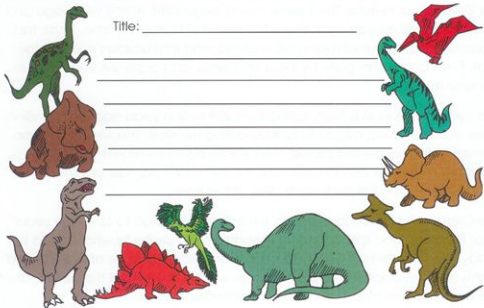
Adjectives

huge

spiked

sharp

Title: _____



THE MESOZOIC ERA

245–65 Million Years Ago



The **Mesozoic Era** is known as the Age of the Reptiles. This time period occurred 245 million to 65 million years ago when dinosaurs and other prehistoric creatures lived. At the beginning of this period, scientists think that the earth had only one continent, a super-continent called Pangaea. Toward the middle of this era, Pangaea began to break apart. It eventually formed the seven continents of our world.

The Mesozoic Era is divided into three periods—the Triassic, the Jurassic, and the Cretaceous Periods. The Triassic Period began 245 million years ago and ended 208 million years ago. It was hot and dry. During this time, small, fast dinosaurs and nocturnal mammals evolved, and ichthyosaurs swam in the seas. Ferns and plants grew by lakes and rivers, and palm-like trees grew in the drier regions.

The Jurassic Period was next, lasting from 208 million years ago to 144 million years ago. Pangaea began to split up during this time. The Atlantic Ocean formed between the two plates. The climate became more humid and plants flourished. Dinosaurs were now the dominant animals, but small mammals and the first birds were alive at this time.

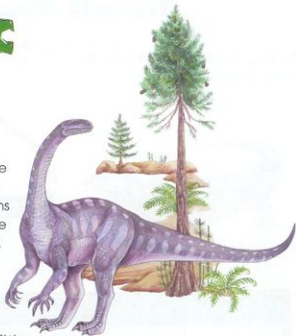
The Cretaceous Period lasted from 144 million years ago to 65 million years ago. Pangaea had split up, and the earth looked similar to what it looks like today. The climate had begun to cool. Many different types of animals and plants had developed during this time as well. At the end of this period, all of the dinosaurs and many other kinds of animals died out.

THE TRIASSIC PERIOD

**245–208
Million Years Ago**

At the beginning of this time period, the earth contained one landmass called Pangaea. The climate was warm and dry. Ferns and other plants grew along the banks of lakes and rivers. Frogs, early crocodiles, and tortoises inhabited these bodies of water. In the drier regions, palm-like trees and tall evergreens like Norfolk pines grew.

The first small mammals appeared in the Triassic Period. They were shrew-like animals.



Dinosaurs first appeared during the Triassic Period. Two examples of Triassic dinosaurs are Coelophysis, a small, lightweight insect- and meat-eater that was about ten feet long, and Thecodontosaurus, a seven-foot long plant-eater. Reptiles of the time include the first flying pterosaurs and swimming ichthyosaurs.



Name That Dinosaur!

Complete the puzzle below by writing a dinosaur's name across each letter. Remember that the name you choose must contain that letter. The first one has been done for you. If you need help, use the Word Bank at the bottom of the page.

Word Bank

Coelophysis

Dinosaurus

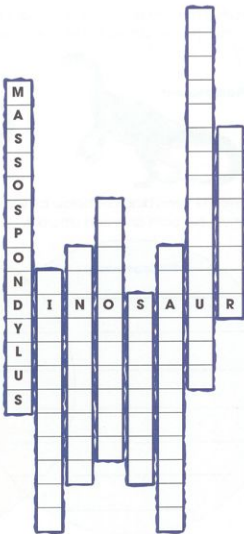
Eoraptor

Plateosaurus

Riojasaurus

Saltopus

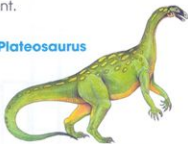
Thecodontosaurus



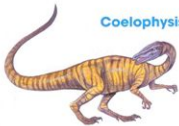
Dinosaur Diagram

A Venn diagram can be used to compare things. First, look at the picture to notice ways the two dinosaurs are the same. Then, look for how they are different.

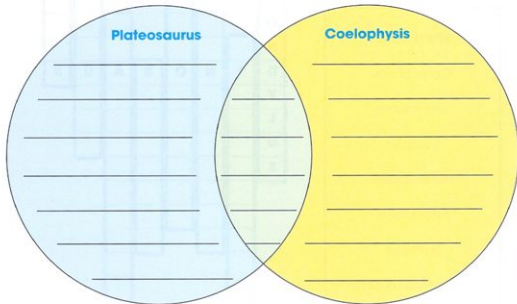
Plateosaurus



Coelophysis



Complete the Venn diagram below by writing more ways Plateosaurus and Coelophysis are both alike and different.



Different

Same

Different

Who Am I?

Read the 16 clues below about a certain dinosaur. Use a science book or other resource materials and your own logical thinking to guess the name of the dinosaur. When you are finished, write your own clues about another dinosaur. Give it to someone else to see if he or she can guess the answer.

I am a dinosaur.

- | | |
|--|---|
| 1. My name means "La Rioja Lizard." | 9. I had claws on my feet. |
| 2. I had a small head. | 10. My fossils were found in Argentina. |
| 3. I had spoon-shaped teeth. | 11. I was a Saurischian. |
| 4. I ate plants. | 12. I had a long neck. |
| 5. I walked on all four legs. | 13. I probably could not run. |
| 6. I was 30–36 feet long. | 14. My backbone was hollow. |
| 7. I had a bulky body. | 15. I had a long tail. |
| 8. I lived during the Triassic Period. | 16. I was named by José F. Bonaparte in 1969. |

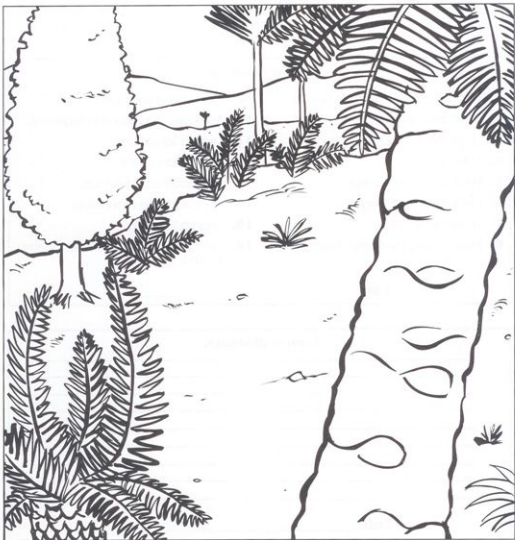
I am _____

I am a dinosaur.

I am _____

The Triassic World

Draw a picture of your favorite dinosaur from the Triassic Period in the picture below. Then, color the picture.



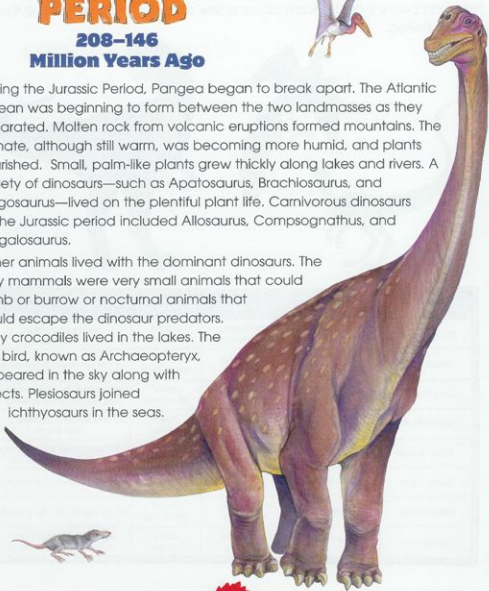
THE JURASSIC PERIOD

**208–146
Million Years Ago**



During the Jurassic Period, Pangea began to break apart. The Atlantic Ocean was beginning to form between the two landmasses as they separated. Molten rock from volcanic eruptions formed mountains. The climate, although still warm, was becoming more humid, and plants flourished. Small, palm-like plants grew thickly along lakes and rivers. A variety of dinosaurs—such as Apatosaurus, Brachiosaurus, and Stegosaurus—lived on the plentiful plant life. Carnivorous dinosaurs of the Jurassic period included Allosaurus, Compsognathus, and Megalosaurus.

Other animals lived with the dominant dinosaurs. The only mammals were very small animals that could climb or burrow or nocturnal animals that could escape the dinosaur predators. Early crocodiles lived in the lakes. The first bird, known as Archaeopteryx, appeared in the sky along with insects. Plesiosaurs joined ichthyosaurs in the seas.



Jurassic Dinosaurs

The chart below includes facts about a few dinosaurs that lived during the Jurassic Period.

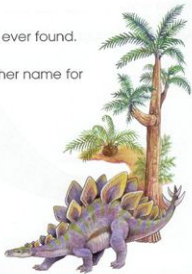


Dinosaur	Name Means	Description	Length	Interesting Fact
Apotosaurus	Deceptive Lizard	four-legged herbivore	about 70-90 feet	used to be called Brontosaurus
Barosaurus	Heavy Lizard	four-legged herbivore	about 66-88 feet	thigh bone was 8 feet long
Camarasaurus	Chambered Lizard	four-legged herbivore	about 25-65 feet	had holes in its vertebrae that helped decrease its weight
Compsognathus	Pretty Jaw	two-legged carnivore	about 2-4 feet	the smallest dinosaur ever found
Dacentrurus	Very Sharp Point Tail	four-legged herbivore	about 15 feet	had two rows of spikes running along its back and tail
Diplodocus	Double-beamed	four-legged herbivore	about 90 feet	tail was about 45 feet long
Stegosaurus	Roofed Lizard	four-legged herbivore	about 26-30 feet	brain was the size of a walnut
Supersaurus	Super Lizard	four-legged herbivore	about 138 feet	one of the longest land animals that ever lived

Use the information from the previous page to answer the following questions.



1. _____ had two rows of spikes running along its back and tail.
2. Camarasaurus was named because it had holes in its vertebrae, and its name means _____.
3. Supersaurus was one of the longest _____ animals that ever lived.
4. _____ had a thigh bone that was eight feet long, taller than a human being.
5. Compsognathus was one of the _____ dinosaurs ever found.
6. _____ was another name for Apatosaurus.
7. Stegosaurus had a brain the size of a _____.
8. Diplodocus's name means _____.



Apatosaurus

Apatosaurus was a very large dinosaur that walked on four feet. It was about 70 feet long! It had a long neck, which allowed it to munch on leaves from tall trees. It also had a long tail. This dinosaur had very strong bones to support its weight. Apatosaurus was covered with tough, leathery skin.

Create a rhyme about Apatosaurus. Fill in each blank below using the information given above.

Its neck was long.

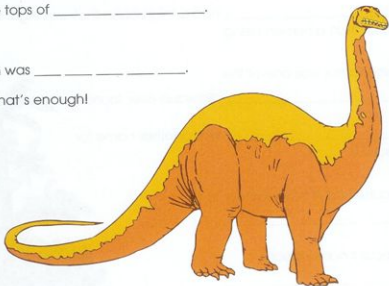
Its bones were _____.

It reached with ease

To the tops of _____.

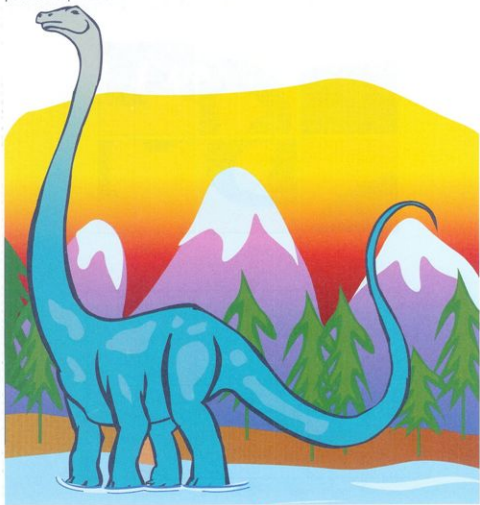
Its skin was _____.

And that's enough!



Barosaurus

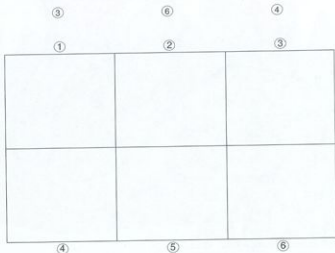
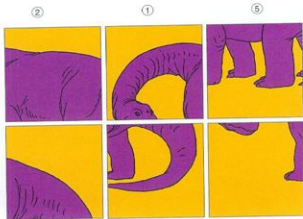
Barosaurus was a huge four-legged herbivore from the Jurassic time period. Barosaurus had a small head at the end of its long neck. A long tail kept the dinosaur balanced. Though it had no claws to defend itself, its enormous size provided protection from carnivores.



Camarasaurus

Camarasaurus was a fairly large four-legged plant-eater. It had a long neck and a very strong but short tail.

Carefully copy the lines in each numbered box into the square on the grid that has the same number. Then, color the finished drawing any way you like.



Compsognathus

Compsognathus was a tiny dinosaur that was no bigger than a chicken. Because it weighed about 5 pounds, Compsognathus was probably quick and light on its feet. It could chase down insects and other small animals, then use its sharp teeth and claws.

There are six of these tiny dinosaurs hiding in the picture below. Can you find them all? Circle each one.

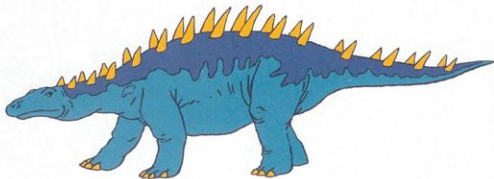


Dacentrurus

Dacentrurus was a fairly small dinosaur. It was only 15 feet long, and it weighed about 1 ton. It had two rows of spikes on its back and tail. Dacentrurus walked on all four feet. It was a plant-eater.

How many different words can you make using the letters in the name Dacentrurus?

DACENTRURUS

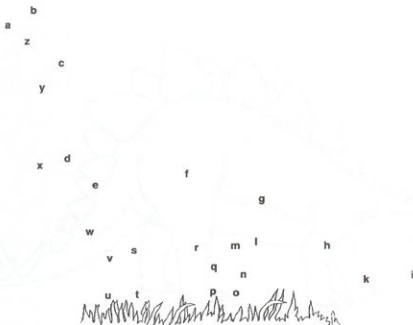


Now use each of these words in a sentence. _____

Diplodocus

Diplodocus was one of the longest dinosaurs. It was 85 to 100 feet long. Diplodocus had a very long neck and a small head. Its tail was about 45 feet long! Diplodocus probably swayed its tail back and forth to keep other dinosaurs away.

Connect the letters in alphabetical order to make a picture of Diplodocus. Then, color the picture any way you like.

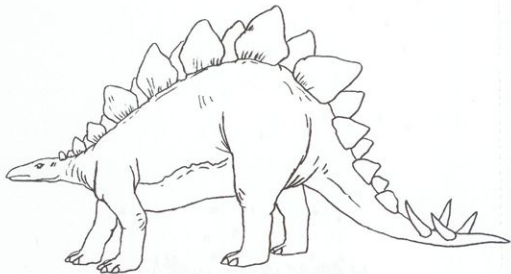


Stegosaurus

Stegosaurus had large bony plates on its neck, back, and tail. Scientists are not sure why the dinosaur had these plates. Perhaps the plates protected Stegosaurus, or maybe they helped it warm up and cool down.

Stegosaurus was about 25 feet long and weighed over 3 tons. It had a very small head and brain. Stegosaurus walked with its head close to the ground because its front legs were shorter than its back legs. Stegosaurus had sharp spikes on the end of its tail.

Color the Stegosaurus plates purple. Color the spikes red. Color the rest of the dinosaur any way you like.



Use the information from the previous page to complete each sentence below.

Stegosaurus had a small _____.

Stegosaurus had sharp _____ on the end of its tail.

Stegosaurus was about 25 _____ long.

Stegosaurus weighed over 3 _____.

Stegosaurus had bony _____ on its back.

Its head was close to the _____.

Unscramble the letters in the circles to find out what Stegosaurus liked to eat.



Stegosaurus ate _____.

Supersaurus

Supersaurus was one of the longest animals ever discovered. It had a long tail and neck and ate plants. Due to its size—it could weight up to 54 tons—Supersaurus probably spent most of its time eating. It did not chew its food, but it would swallow whole leaves, and then the gastroliths in its stomach would grind up the leaves. Supersaurus probably traveled in herds when an area of its food source was cleared. Supersaurus did not have claws for protection, but its size and the fact that it traveled in herds protected it from predators. Supersaurus fossils have been found in North America.

Use the passage above to answer the questions below.

1. Supersaurus had a long _____ and _____.
2. They did not _____ their food but swallowed it whole.
3. _____ in their stomachs would break down the food.
4. Supersaurus most likely traveled in _____.
5. Supersaurus fossils have been found in _____.



Dinosaur Diagram

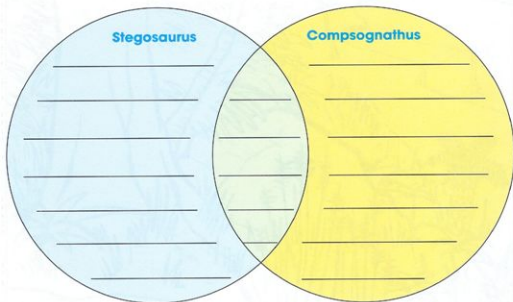
A Venn diagram can be used to compare things. First, look at the pictures to notice ways the two dinosaurs are the same. Then, look for how they are different.

Stegosaurus



Compsognathus

Complete the Venn diagram below by writing ways Compsognathus and Stegosaurus are both alike and different.



Different

Same

Different

The Jurassic World

Draw a picture of your favorite dinosaur from the Jurassic Period in the picture below. Then, color the picture.



THE CRETACEOUS PERIOD

**146 – 65
Million Years Ago**

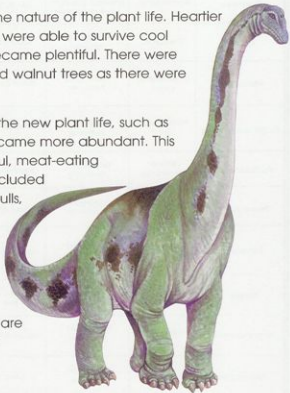


This final period of the Age of Reptiles lasted the longest. The shape and position of the continents more closely resembled those of the continents today. The earth was changing through the formation of mountains, and erupting volcanoes under the Atlantic Ocean formed the spreading sea floor.

The cooling climate changed the nature of the plant life. Heartier plant species with tough leaves were able to survive cool winters. Flowering plants also became plentiful. There were almost as many oak, maple, and walnut trees as there were conifers.

Dinosaurs capable of chewing the new plant life, such as Iguanodon and Triceratops, became more abundant. This was also the age of the powerful, meat-eating Tyrannosaurus. Other animals included early ancestors of bees, frogs, gulls, possums, salamanders, snakes, and turtles.

At the end of the Cretaceous Period, all of the dinosaurs and many of the other animal species had died out. Scientists are still making hypotheses on what happened to cause such a mass extinction.



Cretaceous Dinosaurs

The chart below includes facts about a few dinosaurs that lived during the Cretaceous Period.

Dinosaur	Name Means	Description	Length	Interesting Fact
Ankylosaurus	Fused Lizard	four-legged herbivore	25 - 35 feet	It had an armored and spiked back, club-like tail, and huge horns behind its head.
Corythosaurus	Helmet Lizard	two-legged herbivore	30 - 35 feet	It had a flat, bony crest on its head that looked like a helmet.
Gallinimus	Rooster Mimic	two-legged omnivore (ate both meat and plants)	13 - 20 feet	It used its tail for balance when running.
Ingenia	She-camel	two-legged carnivore	about 4 feet	It protected its eggs while in the nest.
Malasaura	Good Mother Lizard	four-legged herbivore	about 30 feet	The first dinosaur fossils to be found alongside its fossilized eggs and nest.
Pachycephalosaurus	Thick-headed Lizard	two-legged herbivore	about 15 feet	It probably ran away from danger before using its head for defense.
Parasaurolophus	Beside Saurorlophus	two-legged herbivore	about 40 feet	Its long crest was probably used to make a loud sound.
Pentaceratops	Five-horned Face	four-legged herbivore	about 30 feet	It had the largest known skull of a land animal.
Saltasaurus	Saltia Lizard	four-legged herbivore	about 40 feet	It had armored plates that may have had spikes for protection.
Troödon	Wounding Tooth	two-legged carnivore	about 6 - 12 feet	It may have been the smartest dinosaur.
Tyrannosaurus rex	Tyrant Lizard King	two-legged carnivore	about 40 feet	Its teeth could be as long as 13 inches.
Velociraptor	Speedy Thief	two-legged carnivore	5 - 6 feet long	It could run 40 miles an hour for short distances.



Use the information from the previous page to answer the following questions.

1. _____ was a two-legged carnivore that protected its eggs.
2. Parasaurolophus had a long _____ on its head that it probably was used to make a loud noise.
3. An armored dinosaur, Ankylosaurus ate _____.
4. _____ fossils were found in the Salta Province in Argentina.
5. Scientists believe that Troödon may have been the _____ dinosaur.
6. The fossils of the four-legged herbivore _____ were the first to be found alongside its fossilized eggs and nest.
7. _____ could run up to 40 miles an hour for short distances.
8. Corythosaurus had a flat, bony crest on its head that looked like a _____.
9. Pachycephalosaurus, whose name means _____, probably ran away from danger before fighting.
10. Scientists believed that _____ used its tail for balance as it ran.
11. _____ had the largest known skull of any land animal.
12. Tyrannosaurus rex could have teeth up to _____ inches long.



Ankylosaurus

Ankylosaurus was about 35 feet long and weighed about 5 tons. It had a short neck and stubby legs. The body of Ankylosaurus was covered with thick, leathery skin and bony plates. It also had rows of knobs and spikes on its body. Ankylosaurus had a tail that ended in a big bony club, which could be used to fight off other dinosaurs. The dinosaur used its small teeth and jaws to eat plants near the ground.

Ankylosaurus weighed 1 2 3 4 5 6 7 8.

Ankylosaurus had a 8 9 6 10 5 neck.

Ankylosaurus had bony plates, 8 11 2 12 4 8, and knobs for armor.

Ankylosaurus ate 11 13 14 7 5 8.



Use the answers above to find the letter that goes with each number. Fill in the blanks to find a nickname for Ankylosaurus.

10 4 11 5 2 13 2 14 7 5 14 7 12

Why is this a good nickname for Ankylosaurus? _____

Corythosaurus

Corythosaurus was fairly large in size. It was about 30 feet long and weighed more than 2 tons. It had bumpy skin and a hollow, rounded crest covering its head. Corythosaurus was a plant-eater, and it had many rows of teeth for grinding food. Scientists think it ate pine needles and leaves. Corythosaurus probably ran on two feet with its tail out for balance.

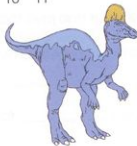
Corythosaurus was fairly large in 1 2 3 4.

In fact, it was about 5 6 2 7 5 8 9 4 4 5 long.

Corythosaurus had a large crest on its 6 4 10 11.

Its skin was 12 13 14 15 8.

It probably ate 16 4 10 17 4 1.



Use the answers above to find the letter that goes with each number. Fill in the blanks to find the meaning of this dinosaur's name.

6 4 16 14 4 5 16 2 3 10 7 11

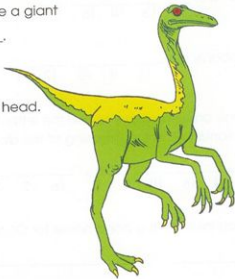
Do you think this is a good name for Corythosaurus? Why? _____

Gallimimus

Gallimimus looked sort of like a giant ostrich. It had long, thin legs and could run fast. Its hands were probably not very strong. Gallimimus had a long neck and a small head. Scientists think that it had jaws that looked like a beak. Gallimimus did not have teeth. It probably ate eggs, plants, and fruit.

Fill in the blanks.

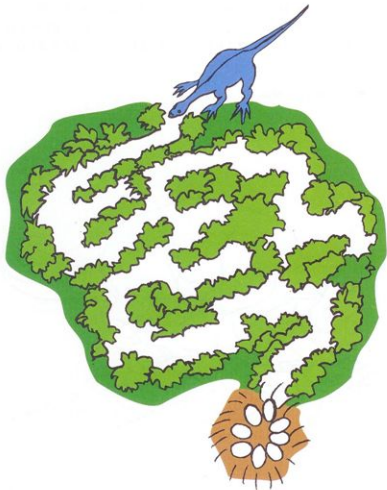
1. Gallimimus probably ate plants and _____.
2. It did not have _____.
3. Its _____ were weak.
4. Gallimimus had jaws that looked like a _____.
5. Gallimimus looked somewhat like a giant _____.
6. It could _____ fast.
7. It had a _____ head.



Ingenia

Ingenia was a small dinosaur. It weighed about 60 pounds and was less than 5 feet long. It probably ate insects and the eggs of other dinosaurs.

Color the path that Ingenia must take to get to its food.



Maiasaura

Paleontologists believe that some dinosaurs took very good care of their babies after they hatched, unlike many reptiles today. In Montana, the bones of more than a dozen baby dinosaurs were found in and around a large round nest. It was 7 feet across. The remains of an adult dinosaur were also found near the nest. This dinosaur was named Maiasaura. The teeth of the baby dinosaurs were worn, showing that they had been eating plants. Perhaps the mother Maiasaura brought the plants to the nest for the babies to eat.

Color the picture any way you like.



Use the information on the previous page to complete each sentence below.

1. This Maiasaura nest was found in .
2. The remains of the adult were near a large .
3. The nest was in shape.
4. The of the baby dinosaurs were worn because they had been eating .

Unscramble the letters in the circles above to find the meaning of the name Maiasaura.

"Good lizard"

Think of some animals living today that care for their young until they are grown. What are some of the things these animals do to care for the baby animals?



Pachycephalosaurus

Pachycephalosaurus had a thick bone on the top of its head. Knobs and spikes stuck out from this dome and the dinosaur's nose. Pachycephalosaurus may have crashed heads with rival dinosaurs to become the leader of the herd or to win mates.

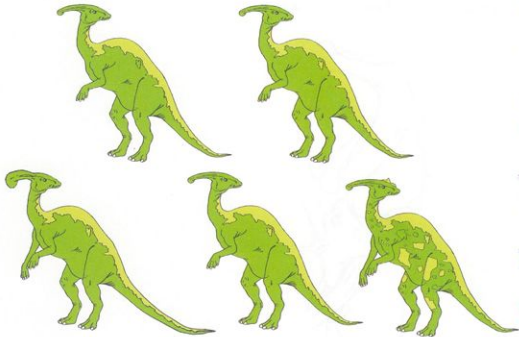
Circle the two pictures below that are exactly alike.



Parasaurolophus

Parasaurolophus had a long crest on the top of its head. This crest was about 5 feet long! Some paleontologists think that the tube helped the dinosaur smell. Others believe that the tube gave Parasaurolophus a loud voice.

Look at each Parasaurolophus shown below. Circle the two pictures that are exactly alike.



What is different about each of the other pictures? _____

Pentaceratops

Pentaceratops was one of the dinosaurs that had a lot of armor. It had a horn above each eye and one on its nose. It also had something that looked like a horn on each cheek. Pentaceratops had a very large frill. Its body was about 30 feet long. Pentaceratops was a plant-eater.

Complete the picture by drawing the missing half of this Pentaceratops. Then, color the picture any way you like.

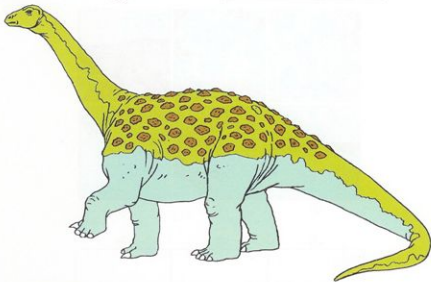


Saltasaurus

Saltasaurus was a large dinosaur that walked on four feet. It had a fairly long neck and a long, thick tail. Saltasaurus was almost 40 feet long from nose to tail. Saltasaurus had tough plates, studs, and tiny spikes covering its back.

Cut a piece of string that is 40 feet long. Take the string outside and lay it out in a straight line on the sidewalk.

1. Was Saltasaurus bigger than a car? _____



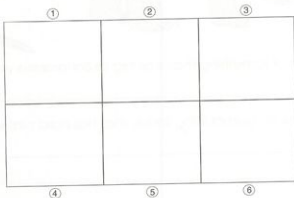
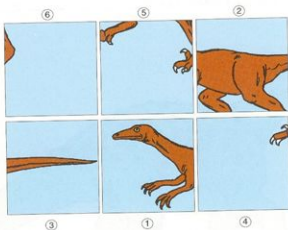
2. Can you think of something that is as big as Saltasaurus was?

3. Can you name an animal living today that has hard plates covering part of its body? _____

Troödon

Troödon was a very fast and smart dinosaur. In fact, some scientists think it was the most intelligent of all the dinosaurs. It had sharp claws and could see well, so it was probably a good hunter.

Copy the lines in each numbered box into the square on the grid below that has the same number. Then, color the finished drawing any way you like.



Heads or Tails?

Listed below are dinosaurs from the Cretaceous Period and important physical features about them. Draw a line to match the name of each dinosaur on the right to the interesting fact about its head or tail on the left.

Ankylosaurus •

- This dinosaur had a long crest on top of its head that was about 5 feet long!

Corythosaurus •

- This dinosaur had a very small head and a long neck.

Gallimimus •

- This dinosaur's tail ended in a big, bony club.

Pachycephalosaurus •

- This dinosaur had a hollow, rounded crest covering its head.

Parasaurolophus •

- This dinosaur had a long, thick tail, which added to its length of over 40 feet!

Pentaceratops •

- This dinosaur had a horn above each eye and one on its nose.

Saltasaurus •

- This dinosaur had a thick bone on top of its head with knobs and spikes sticking out of it.



Tyrannosaurus rex

Tyrannosaurus rex was a large carnivore that lived during the Cretaceous Period. It walked on two strong hind legs and had a massive head with large teeth that could easily tear apart food. Tyrannosaurus also had two tiny arms that may have been used to grab its prey. Studies of its skull revealed large sight and smell areas in its brain, which meant that Tyrannosaurus had an excellent sense of sight and smell. Tyrannosaurus's tail was straight, giving Tyrannosaurus the ability to keep its balance while running and turning fast. This dinosaur was about 40 feet long and weighed about 7 tons. Some paleontologists believe that Tyrannosaurus was a scavenger, eating animals that were already dead. Others believe that Tyrannosaurus was a predator that killed its own prey.



Answer the questions below in the blanks provided.

1. Tyrannosaurus lived during the _____ Period.
2. It had _____ sight and smell areas in its brain.
3. Tyrannosaurus was about _____ feet long.
4. Do you think that Tyrannosaurus was a scavenger or a predator? Why?

A Dinosaur Named Sue

The first Tyrannosaurus fossil was found in 1902 in Montana. There have only been about 30 different Tyrannosaurus finds since then, most of which were not even half complete. In August of 1990, Susan Hendrickson found an almost complete Tyrannosaurus rex fossil in South Dakota. The fossil was named Sue, after the fossil hunter who found it. Sue is the most complete and best-preserved Tyrannosaurus rex fossil ever found. There was a debate about who owned the fossil. In 1997, it was bought at auction for \$8.4 million by the Field Museum in Chicago. This allowed Sue to be studied by scientists and seen by the public.

Answer the questions below in the blanks provided.

1. When and where was the first Tyrannosaurus rex fossil found?

2. _____ found the Tyrannosaurus, Sue.

3. Why is the fossil Sue so important?

4. Do you think that it was important for the Field Museum (or another museum) to get Sue? Why or why not?

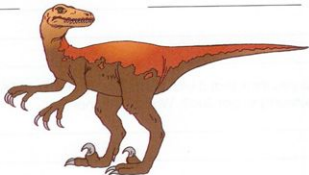
Velociraptor

Velociraptor was a meat-eating dinosaur. It was only about 6 feet tall. Velociraptor had sharp claws on its hands and feet. One claw on each foot was like a long, slashing knife. Velociraptor could run fast. Its name means "speedy thief."

Why do you think this dinosaur was called "speedy thief"?

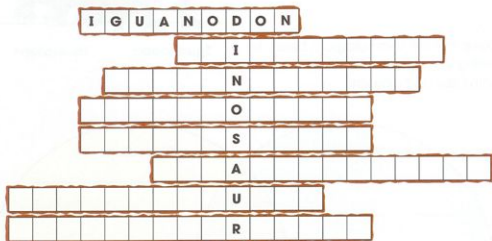
How many different words can you make using the letters in the name Velociraptor?

VELOCIRAPTOR



Name That Dinosaur!

Complete the puzzle below by writing a dinosaur's name across each letter. Remember that the name you choose must contain that letter. The first one has been done for you. If you need help, use the Word Bank at the bottom of the page.



Word Bank

Archaeoceratops

Brachiosaurus

Ankylosaurus

Triceratops

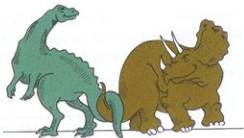
Giganotosaurus

Tyrannosaurus

Ornithomimus

Dinosaur Diagram

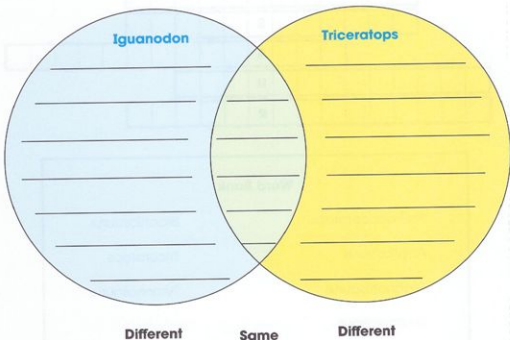
A Venn diagram can be used to compare things. First, look at the picture to notice ways the two dinosaurs are the same. Then, look for how they are different.



Iguanodon

Triceratops

Complete the Venn diagram below by writing ways Iguanodon and Triceratops are both alike and different.



Get a Clue!

Read the 16 clues below about a certain dinosaur. Use a science book or other resource materials and your own logical thinking to guess the name of the dinosaur. When you are finished, write your own clues about another dinosaur. Give it to someone else to see if he or she can guess the answer.

I am a dinosaur.

- | | |
|---|--|
| 1. My name means "three-horned face." | 9. I had 3 claws on my front feet. |
| 2. My skull was 7 or 8 feet long. | 10. I lived in Canada and the U.S. |
| 3. I had a beaked mouth like a parrot. | 11. I had a thick neck frill. |
| 4. I ate plants. | 12. I had 3 horns on my skull. |
| 5. I walked on all four legs. | 13. I am the best-known horned dinosaur. |
| 6. I was 30 feet long. | 14. I used my horns for protection. |
| 7. I weighed up to 10 tons. | 15. I had a small hoof on each toe. |
| 8. I was one of the last dinosaurs to live. | 16. I was named by O.C. Marsh in 1889. |

I am _____

I am a dinosaur.

I am _____



Dino-Find

Find the hidden words in the puzzle below. The words may be written forward, backward, up, down, or diagonally. Circle the words. When you have located all the words, write the remaining letters at the bottom of the page to spell out a message.

ALLOSAURUS
APATOSAURUS
ARMORED
ARCHAEOPTERYX

BIRD HIP
COELURUS
DINOSAUR
DIPLODOCUS

FOSSIL
JURASSIC
MEAT-EATER
PALEONTOLOGIST

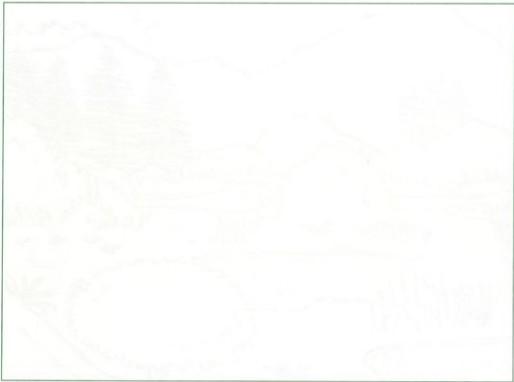
PLANT-EATER
PLATED
SAUROPOD
STEGOSAURUS

S	D	B	U	R	L	I	S	S	O	F	I	S	M	N
G	U	I	T	H	I	S	P	E	R	I	O	T	E	T
J	D	R	U	A	S	O	N	I	D	S	H	E	A	S
U	A	D	U	L	D	L	O	S	E	W	S	G	T	I
R	E	H	A	A	S	O	U	C	R	O	V	O	E	G
A	E	I	R	E	S	R	P	D	O	M	U	S	A	O
S	C	P	H	O	U	F	O	M	N	O	A	T	E	O
I	C	A	E	A	N	D	E	A	A	U	U	R	E	T
C	R	O	O	D	E	T	A	L	P	P	A	U	E	N
A	C	N	D	R	A	I	N	S	C	A	A	S	M	O
E	X	Y	R	E	T	P	O	E	A	H	C	R	A	E
T	O	T	H	D	I	P	L	O	D	O	C	U	S	L
R	E	T	A	E	T	N	A	L	P	E	D	E	S	A
E	R	A	L	L	O	S	A	U	R	U	S	T	S	P



One Mixed-Up Dinosaur!

Imagine that you have just discovered a new dinosaur! In the box below, draw a picture of what this dinosaur looks like. But be careful. You must use different physical features and body parts from dinosaurs you have already learned about. For example, your new dinosaur might look like it has the tail of *Saltasaurus*, the head of *Pachycephalosaurus*, and the teeth of *Tyrannosaurus*!



Now, name your new dinosaur! _____

The Cretaceous World

Draw a picture of your favorite dinosaur from the Cretaceous Period in the picture below. Then, color the picture.



Activities

**Math
Practice**

**Hidden
Pictures**

Dot-To-Dots

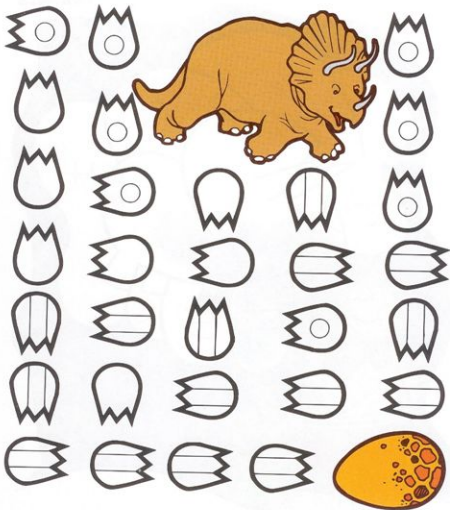
Mazes

**Brain
Teasers**



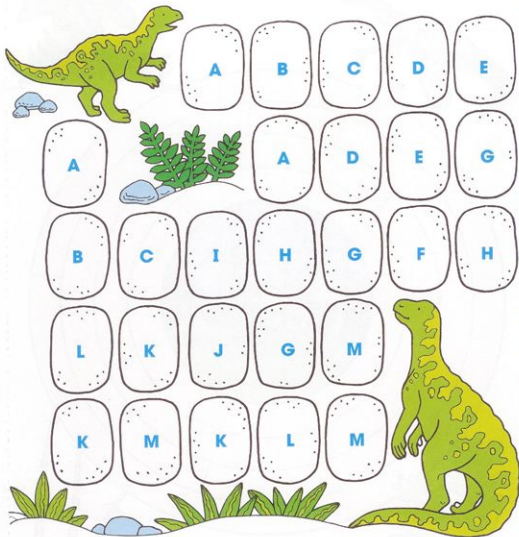
Where's the Egg?

Color the correct set of tracks to help the dinosaur find the egg.



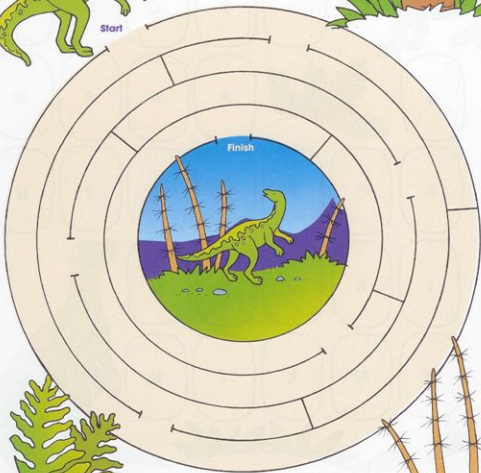
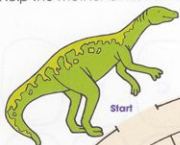
The Lost Dinosaur

Help the baby dinosaur find its mother. Color the path in order from **A** to **M**.



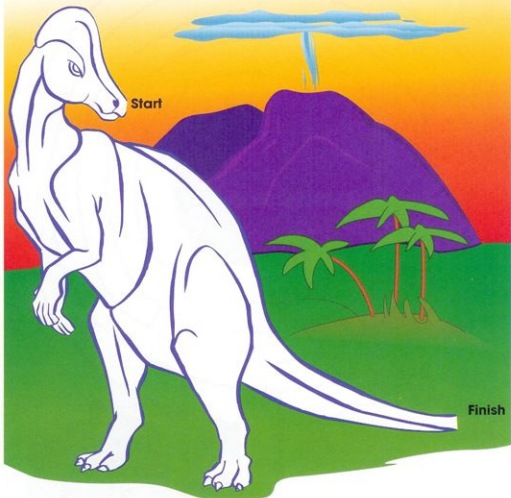
A Very Worried Dinosaur

Help the mother dinosaur find its baby.



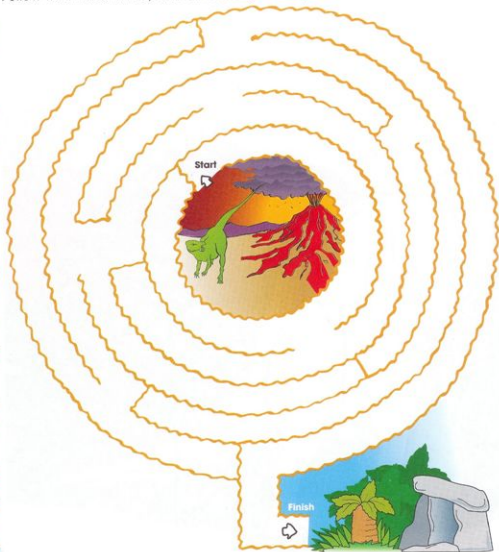
Parasaurolophus

Draw a line through the maze from the dinosaur's nose to its tail.



Volcano!

Follow the maze to help the dinosaur get away from the volcano!



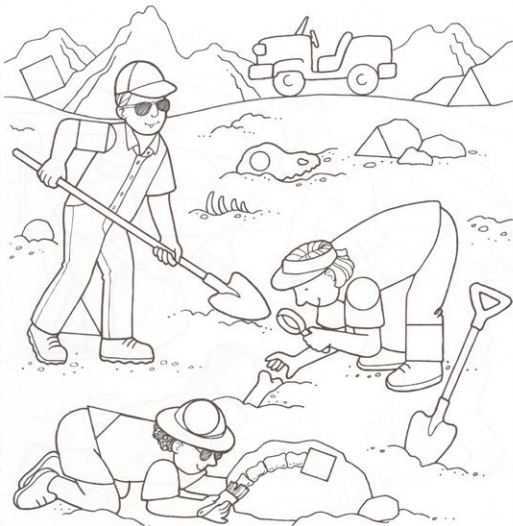
Down at the Dig

Color to find the shapes in the picture. Use the key to help you.

△ = green

○ = yellow

□ = red



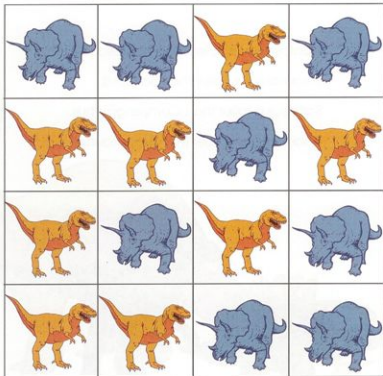
More Dinosaur Dig

Find 7 shovels below and color them purple. Then, color the rest of the picture.



Claudia's Dinosaur!

Look at the Tyrannasaurus and Triceratops pictures below. One of them belongs to Claudia. Read the clues to find out which one. *Hint:* Columns go up and down. Rows go across.



The dinosaur is in a column that has two Tyrannasaurus.

The dinosaur is in a row that has two Triceratops.

There is no Triceratops to the right of the dinosaur.

Which dinosaur belongs to Claudia? Circle the correct dinosaur.

From Shortest to Tallest

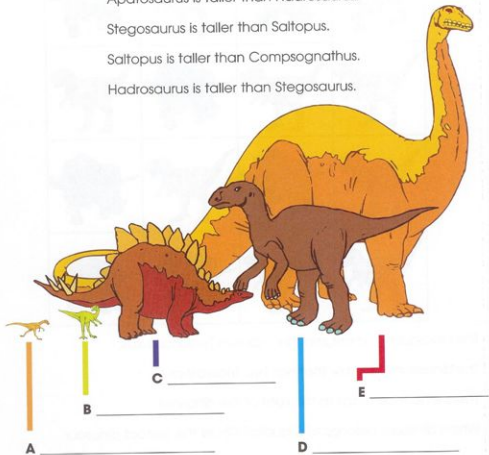
Look at the five different dinosaurs below. The dinosaurs are lined up from shortest to tallest. Read the clues to figure out the name of each dinosaur in the picture. Then, write their names in the blanks.

Apatosaurus is taller than Hadrosaurus.

Stegosaurus is taller than Saltopus.

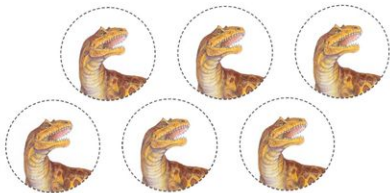
Saltopus is taller than Compsognathus.

Hadrosaurus is taller than Stegosaurus.



Making Moves

Can you change these two rows of dinosaurs into a circle? Try it and see! Cut out the six dinosaurs. Put the dinosaurs on a table so that they look like this:



Now change the rows into a circle by moving only two dinosaurs!



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Flip, Flop

Cut out the ten dinosaurs below. Lay them out in rows to make a triangle that points up like as shown.



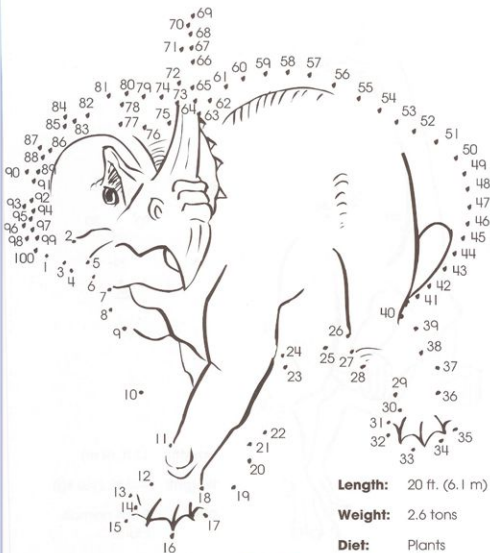
Now move one dinosaur at a time. In three moves, change the triangle so that it points down as shown.



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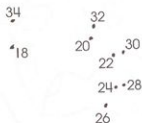
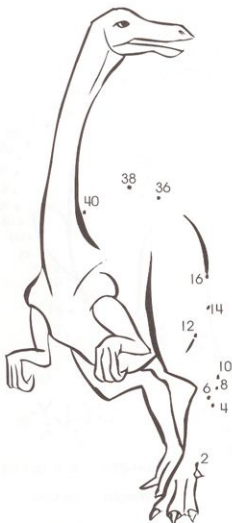
Centrosaurus

Connect the dots from 1 to 100. Then color the dinosaur.



Struthiomimus

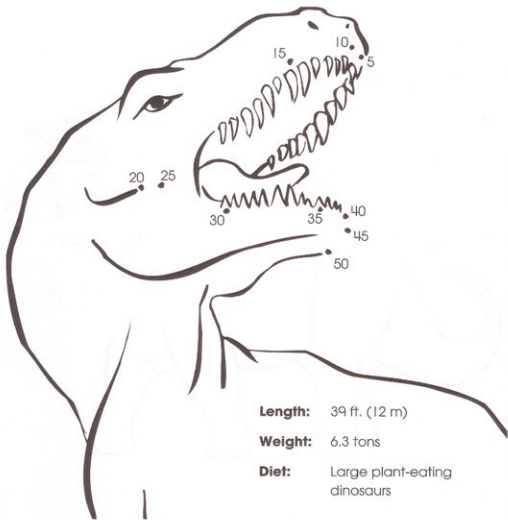
Count by 2s to connect the dots. Then, color the dinosaur.



- Length:** 13 ft. (4 m)
Weight: 440 lb. (150 kg)
Diet: Small animals, plants

Tyrannosaurus

Count by 5s to connect the dots. Then, color the dinosaur.



Length: 39 ft. (12 m)

Weight: 6.3 tons

Diet: Large plant-eating dinosaurs

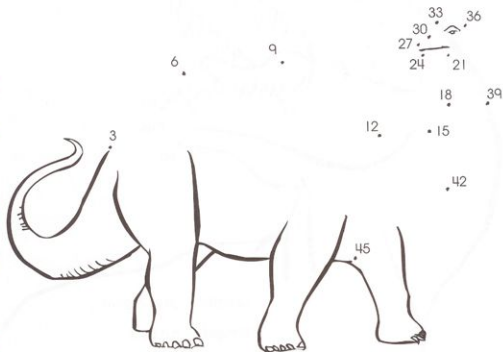
Apatosaurus

Count by 3s to connect the dots. Then, color the dinosaur.

Length: 69 ft. (21 m)

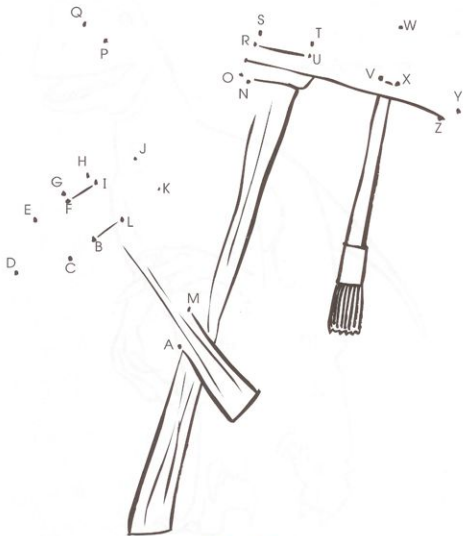
Weight: 24.6 tons

Diet: Tree leaves, ferns



Paleontologist Tools

Connect the dots from A to Z. Then, color the picture.



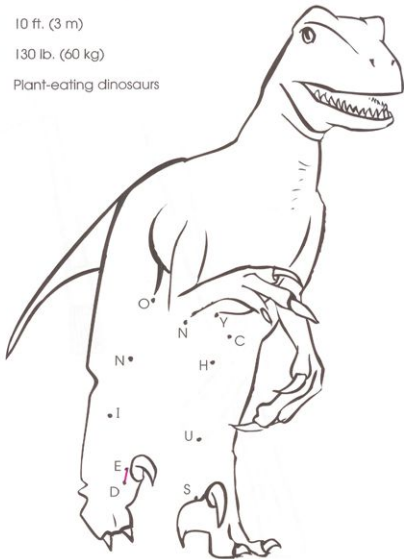
Deinonychus

Connect the dots to spell the dinosaur's name. Then, color it.

Length: 10 ft. (3 m)

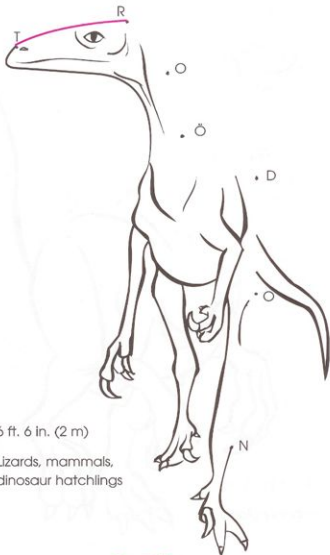
Weight: 130 lb. (60 kg)

Diet: Plant-eating dinosaurs



Troödon

Connect the dots to spell the dinosaur's name. Then, color it.



Length: 6 ft. 6 in. (2 m)

Diet: Lizards, mammals,
dinosaur hatchlings

Segnosaurus

Connect the dots to spell the dinosaur's name. Then, color it.

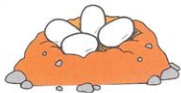


Length: 19 ft. 6 in. (6 m)

Diet: Probably plants

A Nest of Dinosaur Eggs!

Count the dinosaurs eggs in each nest. Write the number of eggs on the lines.



One Long Dinosaur!

Diplodocus was one of the longest dinosaurs. It was 90 feet long! Color the picture of Diplodocus below.



A school bus is 30 feet long. Color the number of school buses it would take to equal the length of one Diplodocus.



Dinosaur Tracks

An inch is a unit of length. Cut out the inch ruler at the bottom of the page. Use it to measure the impressions of dinosaur tracks below to the nearest inch.



about _____ inch



about _____ inch



about _____ inch



about _____ inch



about _____ inch



about _____ inch



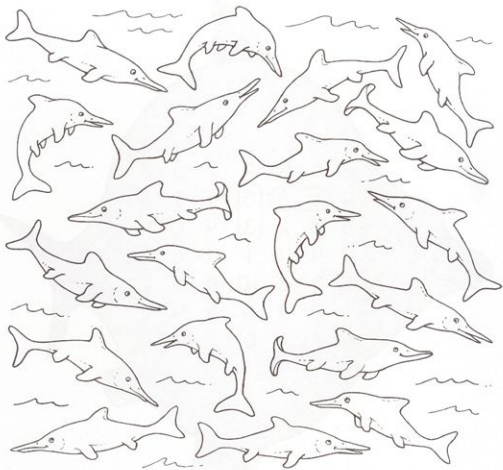
about _____ inch



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Sea Friends

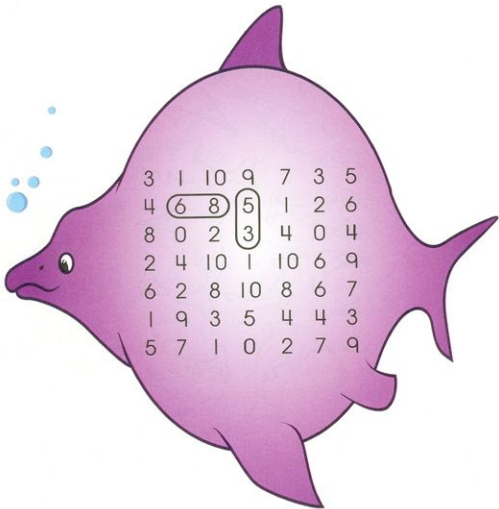
Color the picture. Count the Shonisaurus. Then, answer the question below.



How many Shonisaurus are there? _____

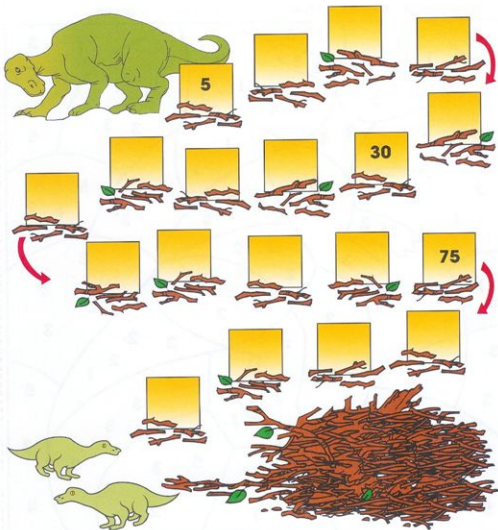
What's the Difference?

Circle the pairs that have a difference of 2.



Building the Nest

Help the Maiasaura count the twigs needed to build its nest. Count by 5s. Write the numbers in the boxes.

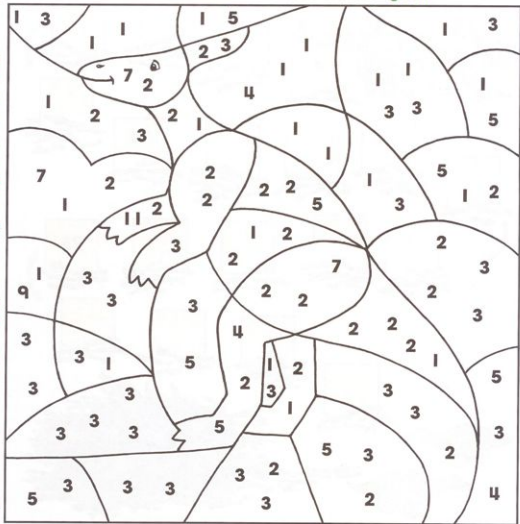


A Dino Discovery

Add together all the numbers shown in each space. Then, color to find the hidden picture using the number key to help you.

even answers = **blue**

odd answers = **green**



Adding Fun

Find a pair of dice. Roll one die and write the number of dots from the die in the top box. Repeat until all the top boxes are filled in. Then, complete the addition sentences.

$\begin{array}{r} \square \\ + 1 \\ \hline \square \end{array}$	$\begin{array}{r} \square \\ + 2 \\ \hline \square \end{array}$	$\begin{array}{r} \square \\ + 3 \\ \hline \square \end{array}$	
$\begin{array}{r} \square \\ + 4 \\ \hline \square \end{array}$	$\begin{array}{r} \square \\ + 5 \\ \hline \square \end{array}$	$\begin{array}{r} \square \\ + 6 \\ \hline \square \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 7 \end{array}$
$\begin{array}{r} \square \\ + \square \\ \hline 8 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 9 \end{array}$	$\begin{array}{r} \square \\ + \square \\ \hline 10 \end{array}$	
$\begin{array}{r} 1 \\ + \square \\ \hline \square \end{array}$	$\begin{array}{r} 2 \\ + \square \\ \hline \square \end{array}$	$\begin{array}{r} 3 \\ + \square \\ \hline \square \end{array}$	$\begin{array}{r} 4 \\ + \square \\ \hline \square \end{array}$

Add-a-saurus

Write the missing addend in each blank to help Add-a-saurus complete the addition sentences.

$3 + \underline{\quad} = 6$

$4 + \underline{\quad} = 5$

$7 + \underline{\quad} = 9$

$2 + \underline{\quad} = 4$

$3 + \underline{\quad} = 8$

$5 + \underline{\quad} = 5$

$8 + \underline{\quad} = 10$

$7 + \underline{\quad} = 8$

$6 + \underline{\quad} = 9$

$8 + \underline{\quad} = 9$

$4 + \underline{\quad} = 6$

$6 + \underline{\quad} = 6$

$5 + \underline{\quad} = 7$

$4 + \underline{\quad} = 7$

$9 + \underline{\quad} = 10$

$5 + \underline{\quad} = 8$

$7 + \underline{\quad} = 10$

$6 + \underline{\quad} = 8$

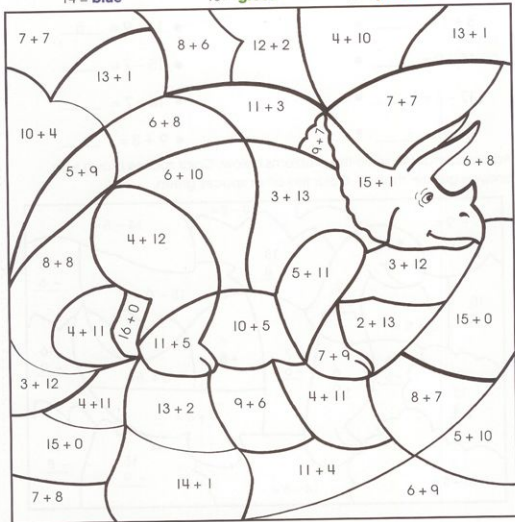
A Gentle Giant

Solve the equations in each space below. Then, color the spaces using the color key to help you find the hidden picture.

$14 = \text{blue}$

$15 = \text{green}$

$16 = \text{yellow}$



Dino-mite!

Add or subtract. Match the related facts.

$5 + 9 = \underline{14}$

$6 + 9 = \underline{\quad}$

$8 + 7 = \underline{\quad}$

$14 - 9 = \underline{5}$

$15 - 9 = \underline{\quad}$

$15 - 7 = \underline{\quad}$

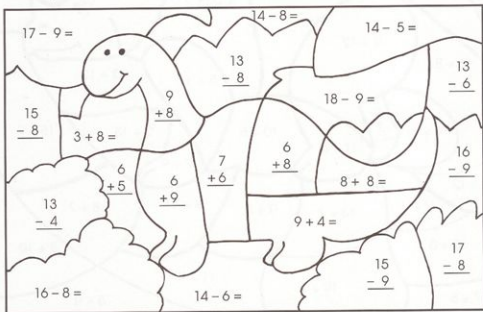
$17 - 8 = \underline{\quad}$

$14 - 7 = \underline{\quad}$

$7 + 7 = \underline{\quad}$

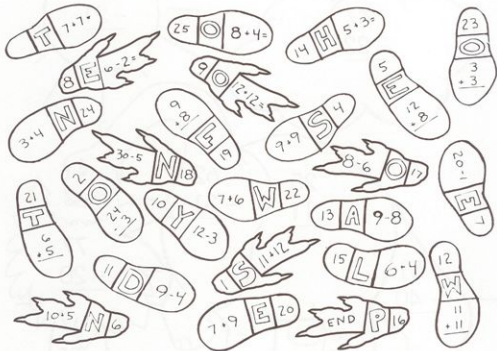
$9 + 8 = \underline{\quad}$

Add or subtract to solve the problems below. Color spaces brown with answers greater than 12. Color the other spaces green.



Dan's Footprints

Why did Dan the Dinosaur go outside with just one boot on? The answer is started for you at the bottom of the page. To finish the answer, work through these footprints. Start at the top with the letter T. Then do the math problem on that footprint ($7+7$) and look for its answer (14) on another footprint. Then write the letter that appears on that footprint in the next blank below. Continue from footprint to footprint until you've covered all your tracks!



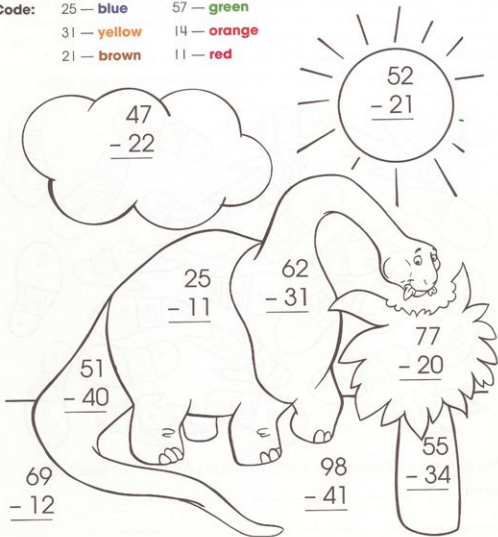
Why did Dan the Dinosaur go outside with just one boot on? Because he heard _____



Prehistoric Problems

Solve the subtraction problems. Then use the code to color the picture.

Code: 25 — **blue** 57 — **green**
 31 — **yellow** 14 — **orange**
 21 — **brown** 11 — **red**



Dino Code

How is a T-Rex like an explosion? To find out, solve the following problems and write the matching letter above each answer on the blanks.

He's

$$\begin{array}{r} 195 \\ \hline \end{array}$$

$$\begin{array}{r} 185 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ \hline \end{array}$$

$$\begin{array}{r} 171 \\ \hline \end{array}$$

$$\begin{array}{r} 195 \\ \hline \end{array}$$

$$\begin{array}{r} 265 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ \hline \end{array}$$

$$\begin{array}{r} 183 \\ \hline \end{array}$$

$$\begin{array}{r} 171 \\ \hline \end{array}$$

—

$$\begin{array}{r} 93 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \hline \end{array}$$

$$\begin{array}{r} 181 \\ \hline \end{array}$$

$$\begin{array}{r} 191 \\ \hline \end{array}$$

!

Remember to regroup when the bottom number is larger than the top number in a column.

$$\begin{array}{r} F = 348 \\ -153 \\ \hline \end{array}$$

$$\begin{array}{r} L = 765 \\ -673 \\ \hline \end{array}$$

$$\begin{array}{r} G = 427 \\ -382 \\ \hline \end{array}$$

$$\begin{array}{r} T = 637 \\ -446 \\ \hline \end{array}$$

$$\begin{array}{r} H = 878 \\ -697 \\ \hline \end{array}$$

$$\begin{array}{r} U = 548 \\ -363 \\ \hline \end{array}$$

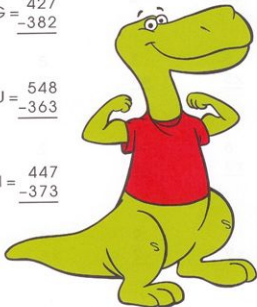
$$\begin{array}{r} O = 824 \\ -653 \\ \hline \end{array}$$

$$\begin{array}{r} N = 439 \\ -256 \\ \hline \end{array}$$

$$\begin{array}{r} I = 447 \\ -373 \\ \hline \end{array}$$

$$\begin{array}{r} M = 568 \\ -475 \\ \hline \end{array}$$

$$\begin{array}{r} D = 748 \\ -483 \\ \hline \end{array}$$



Racing to the Finish

Solve the multiplication problems.



$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$


$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$



Hunt For The Answer

Solve the division problems.

	$3 \overline{)63}$	$3 \overline{)84}$	$4 \overline{)97}$	$6 \overline{)74}$		
	$4 \overline{)74}$	$2 \overline{)46}$	$2 \overline{)48}$	$3 \overline{)75}$		
$5 \overline{)92}$	$3 \overline{)41}$	$3 \overline{)57}$	$4 \overline{)84}$	$4 \overline{)76}$	$7 \overline{)86}$	$5 \overline{)72}$
$5 \overline{)57}$	$3 \overline{)65}$	$2 \overline{)87}$	$5 \overline{)55}$	$7 \overline{)84}$	$3 \overline{)87}$	$7 \overline{)93}$
$3 \overline{)96}$	$6 \overline{)94}$	$5 \overline{)93}$	$9 \overline{)36}$	$2 \overline{)97}$	$6 \overline{)84}$	$3 \overline{)68}$

Dino Divide!

Solve the division problems.

$6 \overline{)888}$

$2 \overline{)956}$

$2 \overline{)712}$

$4 \overline{)860}$

$5 \overline{)845}$



$6 \overline{)750}$

$9 \overline{)999}$

$8 \overline{)968}$

$3 \overline{)774}$

$5 \overline{)735}$

$8 \overline{)920}$



$8 \overline{)984}$

$4 \overline{)500}$

$2 \overline{)846}$

$4 \overline{)712}$

Mr. Dinosaur Means Business

Solve the division problems below. Write the quotient and the remainder.



Use a remainder when a problem doesn't come out even.

No Remainder

$$\begin{array}{r} 6 \\ 4 \overline{) 22} \\ \underline{-24} \end{array}$$

Remainder

$$\begin{array}{r} 5 \text{ R } 2 \\ 4 \overline{) 22} \\ \underline{-20} \\ 2 \end{array}$$

$$\begin{array}{r} 5 \text{ R } 3 \\ 5 \overline{) 28} \\ \underline{-25} \\ 3 \end{array}$$

$$4 \overline{) 19} \text{ R } 3$$

$$8 \overline{) 26} \text{ R } 2$$

$$7 \overline{) 45} \text{ R } 1$$

$$3 \overline{) 26} \text{ R } 2$$

$$2 \overline{) 19} \text{ R } 3$$

$$6 \overline{) 51} \text{ R } 5$$

$$9 \overline{) 65} \text{ R } 2$$

$$8 \overline{) 43} \text{ R } 7$$

$$9 \overline{) 59} \text{ R } 5$$

$$7 \overline{) 33} \text{ R } 5$$

$$4 \overline{) 27} \text{ R } 3$$

Dino Tic-Tac-Toe

Solve the problems. Draw a **T** (for Tyrannosaurus) on the odd (3, 5, 7, 9) answers. Draw an **S** (for Stegosaurus) on the even (2, 4, 6, 8) answers. Which dinosaur wins the most?

$4 \overline{)36}$	$4 \overline{)24}$	$10 \div 5$	$4 \overline{)32}$	$12 \div 4$	$5 \overline{)30}$	$24 \div 4$	$5 \overline{)45}$	$28 \div 4$
$5 \overline{)40}$	$32 \div 4$	$25 \div 5$	$4 \overline{)28}$	$4 \overline{)20}$	$20 \div 4$	$5 \overline{)45}$	$5 \overline{)20}$	$8 \div 4$
$35 \div 5$	$20 \div 4$	$12 \div 4$	$20 \div 5$	$10 \div 5$	$15 \div 5$	$4 \overline{)16}$	$5 \overline{)15}$	$30 \div 5$

$25 \div 5$	$4 \overline{)8}$	$16 \div 4$	$5 \overline{)10}$	$4 \overline{)8}$	$24 \div 4$	$8 \div 4$	$45 \div 5$	$4 \overline{)16}$
$32 \div 4$	$5 \overline{)20}$	$5 \overline{)35}$	$4 \overline{)36}$	$5 \overline{)35}$	$4 \overline{)32}$	$5 \overline{)25}$	$36 \div 4$	$4 \overline{)24}$
$40 \div 5$	$4 \overline{)12}$	$15 \div 5$	$45 \div 5$	$5 \overline{)30}$	$4 \overline{)12}$	$5 \overline{)10}$	$25 \div 5$	$4 \overline{)36}$

$4 \overline{)12}$	$5 \overline{)10}$	$5 \overline{)45}$	$36 \div 4$	$4 \overline{)28}$	$16 \div 4$	$28 \div 4$	$5 \overline{)30}$	$45 \div 5$
$30 \div 5$	$5 \overline{)25}$	$35 \div 5$	$24 \div 4$	$5 \overline{)35}$	$5 \overline{)40}$	$16 \div 4$	$32 \div 4$	$15 \div 5$
$4 \overline{)32}$	$8 \div 4$	$5 \overline{)20}$	$5 \overline{)25}$	$8 \div 4$	$36 \div 4$	$4 \overline{)20}$	$4 \overline{)12}$	$4 \overline{)8}$

Reduce It!

Reduce each sum to a whole number or a mixed number in the lowest terms.

$$\begin{array}{r} \frac{6}{9} \\ + \frac{6}{9} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{4}{5} \\ + \frac{6}{5} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{3}{4} \\ + \frac{2}{4} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{8}{11} \\ + \frac{8}{11} \\ \hline \end{array}$$



$$\begin{array}{r} \frac{2}{5} \\ + \frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{8}{9} \\ + \frac{3}{9} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{4}{8} \\ + \frac{6}{8} \\ \hline \end{array}$$



$$\begin{array}{r} \frac{5}{4} \\ + \frac{2}{4} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{4}{3} \\ + \frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{5}{7} \\ + \frac{6}{7} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{8}{11} \\ + \frac{3}{11} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{3}{12} \\ + \frac{10}{12} \\ \hline \end{array}$$

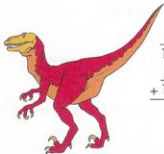
$$\begin{array}{r} \frac{3}{6} \\ + \frac{3}{6} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{6}{12} \\ + \frac{8}{12} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{4}{8} \\ + \frac{4}{8} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{5}{12} \\ + \frac{8}{12} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{5}{12} \\ + \frac{10}{12} \\ \hline \end{array}$$



$$\begin{array}{r} \frac{7}{13} \\ + \frac{6}{13} \\ \hline \end{array}$$

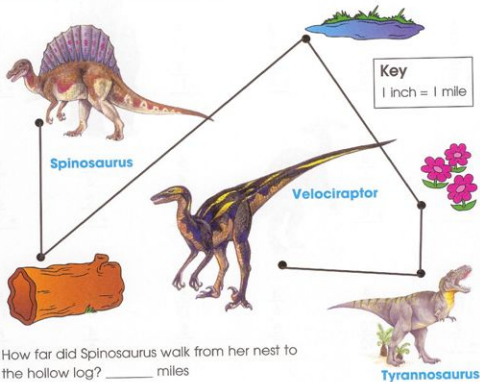
$$\begin{array}{r} \frac{8}{15} \\ + \frac{14}{15} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{5}{7} \\ + \frac{6}{7} \\ \hline \end{array}$$



Spinosaurus's Trip

Spinosaurus took a trip to Velociraptor's den. Read the map and answer the questions. Be sure to stay on the path.



1. How far did Spinosaurus walk from her nest to the hollow log? _____ miles
2. How far was it from Spinosaurus's nest to the marsh? _____ miles
3. Spinosaurus rested at the marsh. How far was it from the marsh to Tyrannosaurus's nest? _____ miles
4. How many miles did Spinosaurus walk from her nest to Velociraptor's nest? _____ miles

Story Problems

Read each story problem. Write a number sentence to solve each problem.

1. Clyde the Coelophysis walked 7 miles to reach the river to get a drink of water. He walked another 5 miles and found a place to sleep. How many miles did Clyde walk altogether?
_____ miles



2. Patty the Plateosaurus nibbled 9 leaves off the top of a tree and 2 more that had fallen to the ground. How many did she eat in all?
_____ leaves

3. Ron the Rutiodon dug a hole that was 1 inch deep. His friend, Ralph, dug a 9-inch hole. How many more inches did Ralph dig than Ron?
_____ inches

4. Peter the Procompsognathus tried to eat 7 insects. He missed 2. How many insects did he eat?
_____ insects

Sink Your Teeth Into This!

Solve the story problems.

1. Alvin Allosaurus had 94 teeth. He broke off 23 while eating. Alvin had _____ teeth left.
2. Bart Brachiosaurus had 20 leaves in his mouth. He swallowed 17 leaves and then bit off 19 more leaves. Barry had _____ leaves left in his mouth.
3. David Dilophosaurus had 28 teeth. He ate too many plants, and 14 teeth fell out. David had _____ teeth left.
4. Ian Ichthyosaurus had 51 teeth. He grew 38 more teeth. Ian had _____ teeth all together.



Arts and Crafts



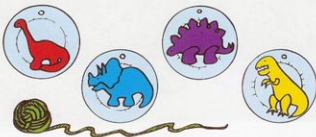
How Big Is a Dino?

You will need

a pen or a marker
a few plain paper plates
a hole punch
a tape measure
a pair of scissors
a skein of yarn



1. Write down the names of a few dinosaurs and their lengths (refer to pages 130, 140, and 154 for this information).
2. On a few paper plates, draw a simple picture of each dinosaur as shown in the illustration below. Write the name and length of each dinosaur on the back of its plate.
3. Have an adult help you punch a hole in the rim of each plate at the top.
4. Go with an adult to a nearby park, playground, or field—take with you the dinosaur plates, a tape measure, a pair of scissors, and a large skein of yarn.
5. Measure and cut pieces of yarn the same length as each dinosaur.
6. Tie each piece of yarn to the hole in the correct dinosaur plate.
7. Lay out the different plates on the ground and compare the lengths.



Prehistoric Pasta

You will need:

- a book with pictures of dinosaurs
- various uncooked pasta shapes
- some construction paper
- a bottle of glue



1. Find a book with pictures of dinosaurs that you like.
2. Gather a variety of uncooked pasta shapes, such as elbows, wheels, shells, and tubes.
3. Choose a piece of construction paper, and get a bottle of glue.
4. Glue some pasta shapes onto the piece of paper to recreate each dinosaur picture you chose from the book.
5. Wait for the glue to dry and display your pasta art on your refrigerator or on a door.



Dinosaur Dig

You will need:

a large baking pan
a box of cornmeal
a few plastic dinosaurs
a plastic spoon
a pastry brush or an old toothbrush



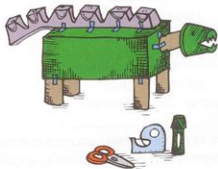
1. Ask an adult to help you fill a large baking pan with cornmeal and set it on a table.
2. Bury several plastic dinosaurs in the cornmeal.
3. Gather a plastic spoon and a pastry brush (or an old toothbrush).
4. Go on a dinosaur dig to hunt for buried fossils! Using the spoon, carefully dig into the cornmeal until you find a "fossil." Then use the pastry brush to clean away the cornmeal.
5. Name each dinosaur you find by looking carefully at its features.



I Have a Dino!

You will need:

- a small shoebox (without the lid)
- some green construction paper
- a pair of scissors
- a roll of tape
- a bottle of glue
- a couple empty paper towel tubes
- an empty toilet paper tube
- an empty egg carton
- a paper cup
- a marker
- a craft knife



1. Wrap a small shoebox with green construction paper securing the paper using tape.
2. To form legs, cut two paper towel tubes in half. With the open side of the box facing up, set the four legs into the corners and glue them in place. Allow the glue to dry and flip the shoebox over—you now have the main body section.
3. Ask an adult to help you remove the top from an empty egg carton and cut the bottom half down the middle using a craft knife. Glue one bottom section to the top of the main body section to form a lumpy spine and tail.
4. To the front of the main body section, glue a toilet paper tube to form the neck.
5. Cover the sides of a small paper cup with green construction paper. Draw eyes on the cup using a marker. Ask an adult to use a craft knife to help you cut big, jagged teeth out of the cup. Then cut two triangular sections out of the sides of the cup to form jaws.
6. Place some glue around the edge of the toilet paper roll and place the cup over the end of the neck to form a head. Remember to allow the glue to dry before moving the dinosaur.

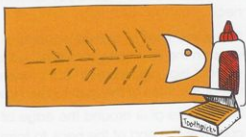
Fishy Fossil

You will need:

a pair of scissors
a hole punch
some white and brown construction paper
a bottle of glue
some flat toothpicks



1. Ask an adult to help you cut a simple fish head shape from white construction paper. Punch a whole in the shape to make an eye socket.
2. Lay out a piece of brown construction paper lengthwise in front of you. Glue the head shape on the right end of the paper.
3. Squeeze a line of glue from the head shape toward the other end of the brown paper.
4. Place flat toothpicks on the glue to form a spine.
5. Add more glue in a series of lines extending outward from the spine to form ribs. Make the lines longer toward the head, gradually becoming shorter toward the tail.
6. Place broken toothpick pieces on the glue for the ribs.
7. When dry, display the finished "fossil" on your refrigerator or wall!



Picture This!

You will need:

some construction paper

some water

several nature items
(twigs, leaves, grass
clipping, or pieces of
bark)

a bottle of glue

a paintbrush

some dinosaur stickers

a bowl

a pair of scissors

a spoon



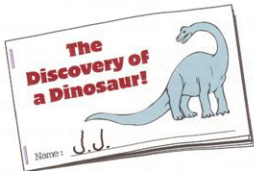
1. Find a long piece of construction paper, or tape together a few pieces of construction paper, on a table or on the floor.
2. Go with an adult to collect nature items (see list above).
3. Put some glue in a small bowl and ask an adult to help you add a small amount of water to thin the glue.
4. Brush the glue onto the paper and attach the nature items to make a swampland.
5. Find dinosaur stickers or cut simple dinosaur shapes from dark green or brown construction paper.
6. Place the stickers or shapes on the paper so it looks like the dinosaurs are grazing, walking, or standing in the swampland.
7. Share your swampland picture! Display it on a bulletin board.



My Dinosaur Book

You will need:

some picture books
a pen
some decorating
materials
a stapler



1. Read several books about dinosaurs.
2. Look at the illustrations on the next page.
3. Think of some interesting facts about dinosaurs that go along with the illustrations.
4. Write a story in the empty spaces below the pictures. Color the pages any way that you like.
5. Carefully cut on the lines to make the pages of your book. Put the pages together in order and staple them on the left edge.
6. Write your name on the front cover. Now you have your very own dinosaur book!

The Discovery of a Dinosaur!



Name: _____



2



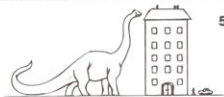
3



4



5



6



7



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Dinosaur Land

You will need:

a large piece of sturdy cardboard
 some newspaper
 a small bowl
 a bottle of glue
 some water
 a paintbrush
 some green or brown tissue paper
 some plastic dinosaurs



1. Lay out a large, sturdy piece of cardboard for a base.
2. Have an adult help you tear newspaper into strips of various lengths.
3. In a small bowl, mix equal parts glue and water.
4. Dip the newspaper strips one at a time into the thinned glue and then layer them on the cardboard in various places to make a bumpy terrain.
5. If necessary, brush the layers with the glue mixture to make them stick.
6. Glue a large sheet of green or brown tissue paper over the newspaper for the final layer.
7. When the terrain is dry, use small plastic dinosaurs to roam about in Dinosaur Land.



Dinos in the Water

You will need:

some play sand
a tub or a bucket
some water

some nature items (rocks,
blades of grass, etc.)

some sponges or corks

some small plastic
dinosaurs



1. Have an adult help you pour sand into a shallow tub or bucket to a depth of 1 or 2 inches.
2. Add a few inches of water in the tub or bucket.
3. Create a dinosaur environment by adding sponges or corks for driftwood, and nature items, such as one or two large rocks for islands, and a few blades of grass for seaweed. Use whatever items you find, they do not have to be the items that are listed here.
4. Using small plastic dinosaurs, pretend they are swimming and climbing around in the water.



Tyrannosaurus Toss

You will need:

a pen or a marker
a large piece of sturdy
cardboard
a craft knife
a chair
some masking tape
some beanbags



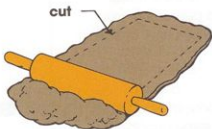
1. Have an adult help you draw a picture of a large Tyrannosaurus head on a piece of sturdy cardboard.
2. Then, ask him or her to cut out the dinosaur's mouth, forming lots of teeth, using a craft knife.
3. Prop the cardboard Tyrannosaurus head against a chair or across a doorway and secure it with tape.
4. Attach a line of masking tape to the floor a few feet away from the cardboard.
5. With a friend or two, stand behind the line and take turns "feeding" the dinosaur by tossing beanbags into its mouth. The first person to toss ten beanbags in the Tyrannosaurus's mouth is the winner.



Mold Fossils

You will need:

some leaves
some clay
a jar of petroleum jelly
a small ink roller
some plaster of Paris
a rolling pin
a table knife



1. Using the rolling pin, roll the clay until it is about $\frac{1}{2}$ " thick. Cut around the edges to make an oval or rectangle. Remove the excess clay.
2. Roll out more clay. Cut it into strips. Put the strips around the oval and pinch them securely into place.
3. Rub petroleum jelly over the rectangle or oval and on the inside of the strips.
4. Press a leaf into the bottom of the clay tray. Use the ink roller to roll over the leaf and make an impression. Remove the leaf.
5. Pour plaster of Paris into the clay tray and let it set. When set, separate the clay and plaster.

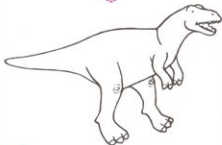
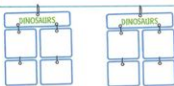


A Dinosaur Mobile

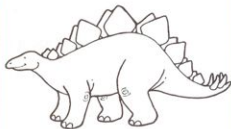
You will need:

a piece of poster board
(any color)
a hole punch
some yarn or string

1. Locate the mobile pieces on pages 237 and 239. Tear the pages out of the book and color the pieces any way you like.
2. Glue the pages to a piece of poster board. After the glue has dried, cut out the mobile pieces following the border lines on each piece.
3. Punch out holes on each piece as indicated by the dots.
4. String the pieces together with yarn or string, and hang your mobile.



Tyrannosaurus



Stegosaurus



Velociraptor



Brachiosaurus

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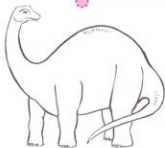
A Dinosaur Mobile



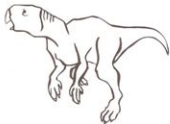
DINOSAURS



DINOSAURS



Apatosaurus



Psittacosaurus



Triceratops



Allosaurus

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Games



Game Directions

The games on pages 243–251 are designed to provide important practice for learning math facts. Locate some items that can be used as game markers, such as small plastic dinosaurs, buttons, paper clips, or dried beans. Cut out the game card sets on pages 253–265 and store each set of cards in a separate plastic bag—be sure to label the bags with the card set name. Game play requires two or more players.

To Play:

- Choose a game and read the object of the game below. Tear out the corresponding gameboard. Mix up the game card set(s) required to play the game and place them facedown in a pile.
- For games 1–6, player 1 takes a card, reads it aloud, calls out the answer, and marks the corresponding space on the gameboard. If the player guesses correctly, he or she takes another turn. If the player guesses incorrectly, or if no correct answer space is left on the board, he or she loses that turn and the next player proceeds.
- For games 7–8, all players take a card and read them aloud. The player with the highest number moves his or her game marker up one space on the gameboard. If the numbers are equal, all markers remain at their current position.
- Continue playing until the object of the game is reached.

Games

1. Four Together (Page 243; use game card set A, B, C, D, E, or F)

2. The Vine Game (Page 244; use game card set A, B, C, D, E, or F)

3. Add-a-Dino! (Page 245; use game card set A, B, C, D, E, or F)

Object for games 1–3: To be the first player to place four of his or her game markers next to each other on the gameboard.

4. Dinosaur Park (Page 246; use game card set A, B, C, D, E, or F)

5. Tyrannosaurus Trail (Page 247; use game card set A, B, C, D, E, or F)


6. Dinosaur Trail (Page 248; use game card set A, B, C, D, E, or F)

7. Capture the Dinosaur Bone (Page 249; use game card set G or H)

8. Stepping Stones (Page 250; use game card set G or H)

Object for games 4–8: To be the first player to place his or her game marker on the designated end of the gameboard.

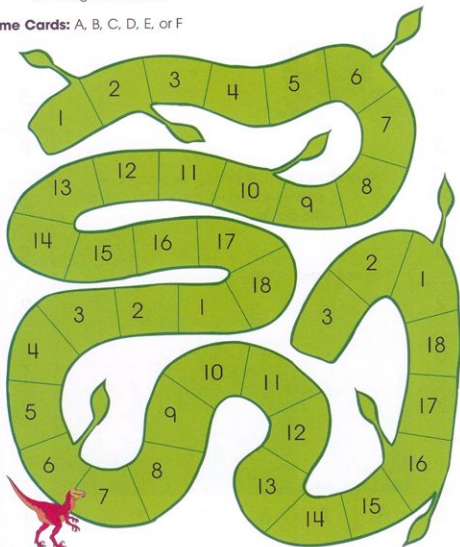
Four Together

9	6	1	8	3	4	7	8
5	 <p>Object: To be the first player to place four game markers next to each other on the game board.</p> <p>Game Cards: A, B, C, D, E, or F</p>						2
4							5
3							8
10							6
6							4
2							2
0							5
7							10
1							4
5	9	7	6	3	7	9	1

The Vine Game

Object: To be the first player to place four game markers next to each other on the game board.

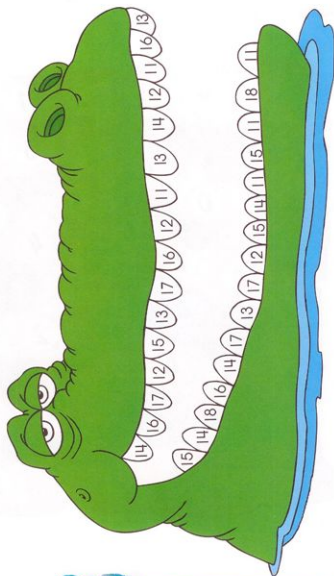
Game Cards: A, B, C, D, E, or F



Add-a-Dino!

Object: To be the first player to place four game markers next to each other on the gameboard.

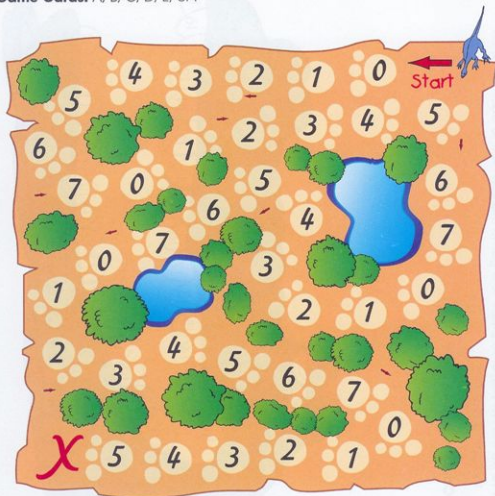
Game Cards: A, B, C, D, E, or F



Dinosaur Park

Object: To be the first player to place his or her game marker on "X."

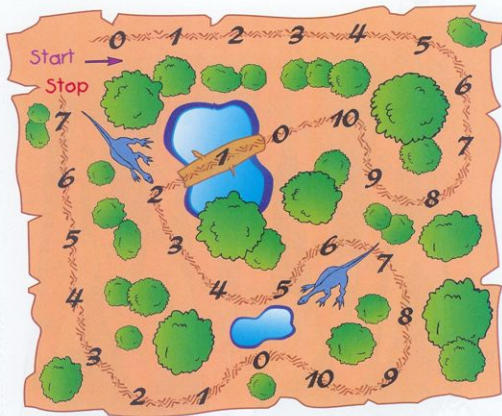
Game Cards: A, B, C, D, E, or F



Tyrannosaurus Trail

Object: To be the first player to place his or her game marker on "Stop."

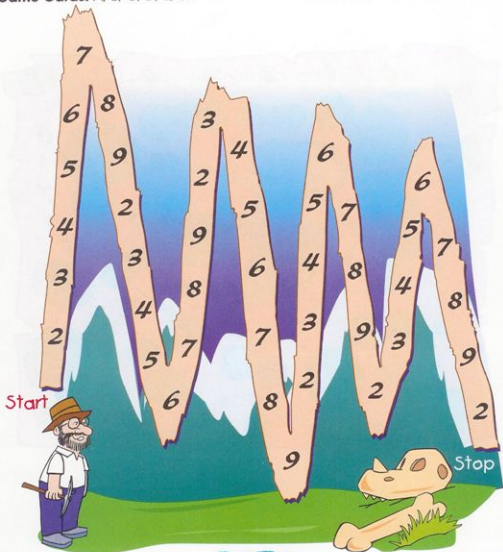
Game Cards: A, B, C, D, E, or F



The Dinosaur Trail

Object: To be the first player to place his or her game marker on "Stop."

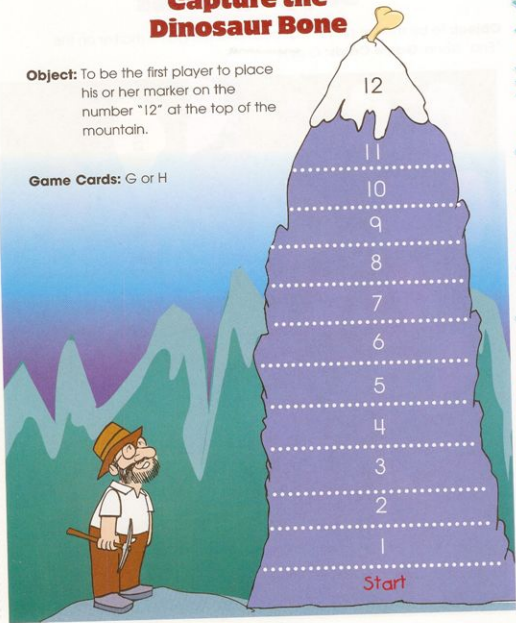
Game Cards: A, B, C, D, E, or F



Capture the Dinosaur Bone

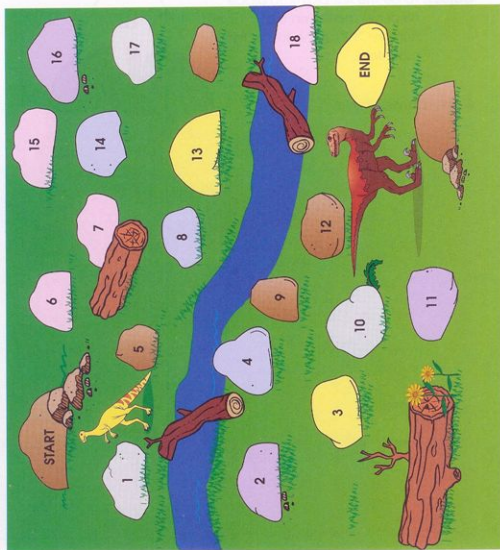
Object: To be the first player to place his or her marker on the number "12" at the top of the mountain.

Game Cards: G or H



Stepping Stones

Object: To be the first player to place his or her game marker on the "End" stone. **Game Cards:** G or H



Game Cards A

$0 + 0$

$4 + 0$

$3 + 0$

$2 + 0$

$1 + 0$

$1 + 1$

$10 + 0$

$9 + 0$

$8 + 0$

$7 + 0$

$7 + 1$

$6 + 1$

$5 + 1$

$4 + 1$

$3 + 1$

$5 + 2$

$4 + 2$

$3 + 2$

$2 + 2$

$9 + 1$

$5 + 3$

$4 + 3$

$3 + 3$

$8 + 2$

$7 + 2$

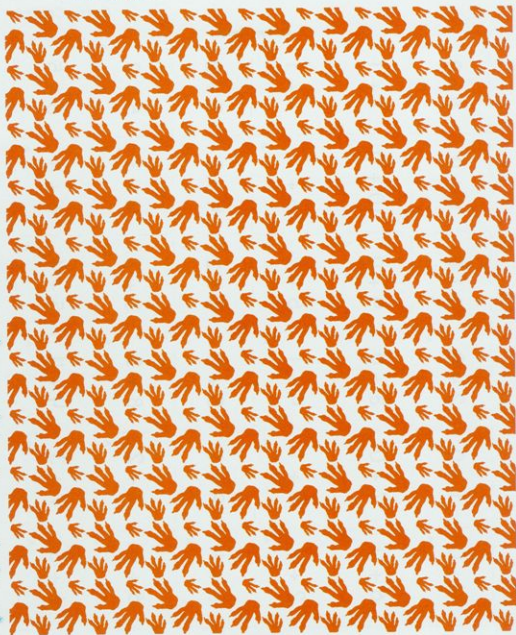
$5 + 5$

$6 + 4$

$5 + 4$

$4 + 4$

$7 + 3$



Game Cards B

$0 + 0$

$0 + 1$

$0 + 2$

$0 + 3$

$0 + 4$

$0 + 5$

$0 + 6$

$0 + 7$

$0 + 8$

$0 + 9$

$0 + 10$

$1 + 1$

$1 + 2$

$1 + 3$

$1 + 4$

$1 + 5$

$1 + 6$

$1 + 7$

$1 + 8$

$1 + 9$

$2 + 2$

$2 + 3$

$2 + 4$

$2 + 5$

$2 + 6$

$2 + 7$

$2 + 8$

$3 + 3$

$3 + 4$

$3 + 5$

$3 + 6$

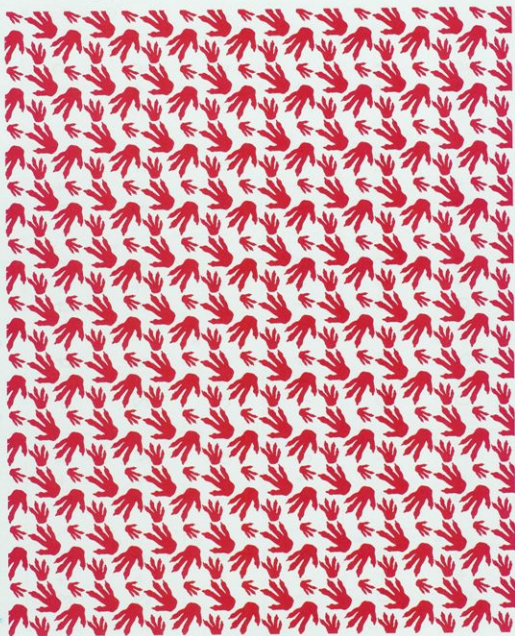
$3 + 7$

$4 + 4$

$4 + 5$

$4 + 6$

$5 + 5$



Game Cards C

0-0

1-0

1-1

2-0

2-1

2-2

3-0

3-1

3-2

3-3

4-0

4-1

4-2

4-3

4-4

5-0

5-1

5-2

5-3

5-4

5-5

6-0

6-1

6-2

6-3

6-4

6-5

6-6

7-0

7-1

7-2

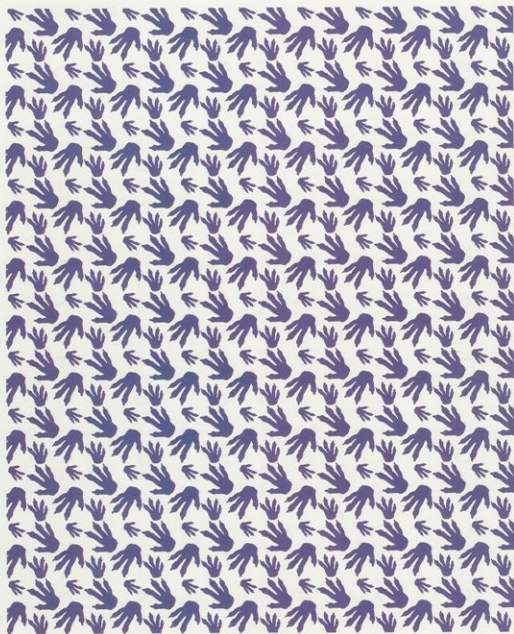
7-3

7-4

7-5

7-6

7-7



Game Cards D

8 - 0

8 - 1

8 - 2

8 - 3

8 - 4

8 - 5

8 - 6

8 - 7

8 - 8

9 - 0

9 - 1

9 - 2

9 - 3

9 - 4

9 - 5

9 - 6

9 - 7

9 - 8

9 - 9

10 - 0

10 - 1

10 - 2

10 - 3

10 - 4

10 - 5

10 - 6

10 - 7

10 - 8

10 - 9

10 - 10

10 - 9

10 - 8

10 - 7

10 - 6

10 - 5

10 - 4



Game Cards E

$9 + 2$

$8 + 3$

$7 + 4$

$6 + 5$

$5 + 6$

$4 + 7$

$3 + 8$

$2 + 9$

$9 + 3$

$8 + 4$

$7 + 5$

$6 + 6$

$5 + 7$

$4 + 8$

$3 + 9$

$9 + 4$

$8 + 5$

$7 + 6$

$6 + 7$

$5 + 8$

$4 + 9$

$9 + 5$

$8 + 6$

$7 + 7$

$6 + 8$

$5 + 9$

$9 + 6$

$8 + 7$

$7 + 8$

$6 + 9$

$9 + 7$

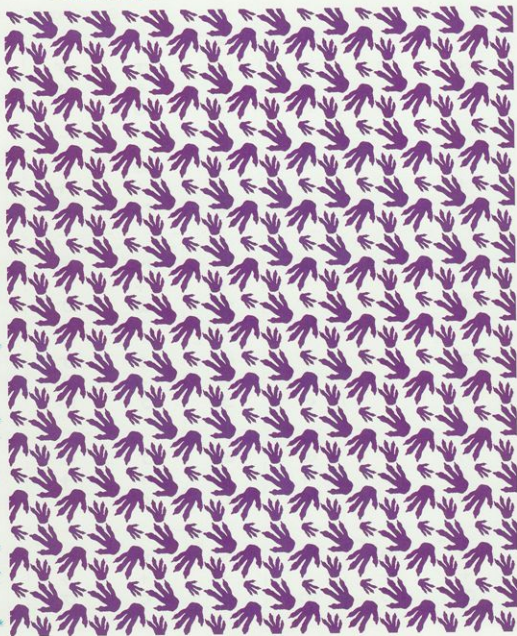
$8 + 8$

$7 + 9$

$9 + 8$

$8 + 9$

$9 + 9$



Game Cards F

11 - 9 11 - 8 11 - 7 11 - 6 11 - 5 11 - 4

11 - 3 11 - 2 12 - 9 12 - 8 12 - 7 12 - 6

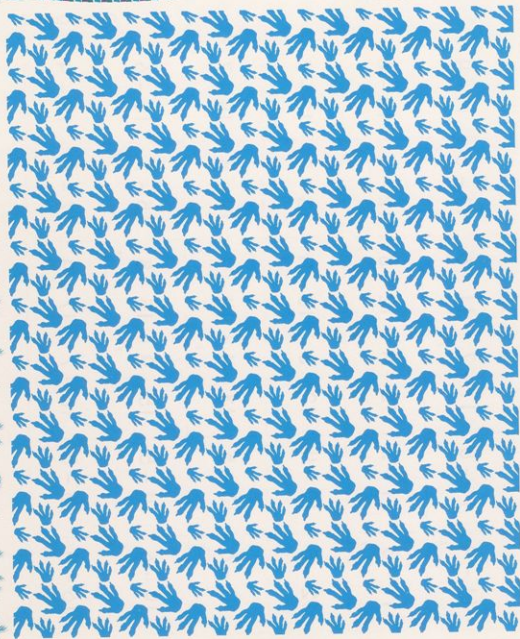
12 - 5 12 - 4 12 - 3 13 - 9 13 - 8 13 - 7

13 - 6 13 - 5 13 - 4 14 - 9 14 - 8 14 - 7

14 - 6 14 - 5 15 - 9 15 - 8 15 - 7 15 - 6

16 - 9 16 - 8 16 - 7 17 - 9 17 - 8 18 - 9





Game Cards G

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18



Game Cards H

six

five

four

three

two

one

twelve

eleven

ten

nine

eight

seven

eighteen

seventeen

sixteen

fifteen

fourteen

thirteen

IIII I

IIII

IIII

III

II

I

IIII IIII

IIII I

IIII IIII

IIII IIII

IIII III

IIII II

II

I

IIII I

IIII IIII

IIII IIII

IIII III

IIII IIII

IIII IIII

IIII IIII

IIII IIII

IIII IIII

IIII IIII

IIII IIII

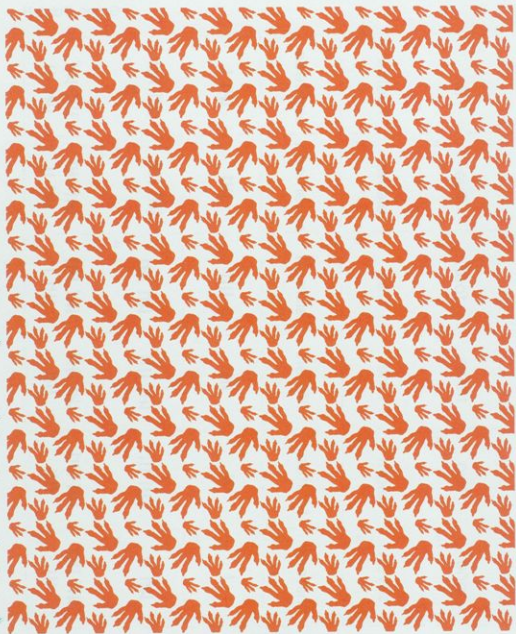
IIII II

IIII I

IIII

IIII

IIII

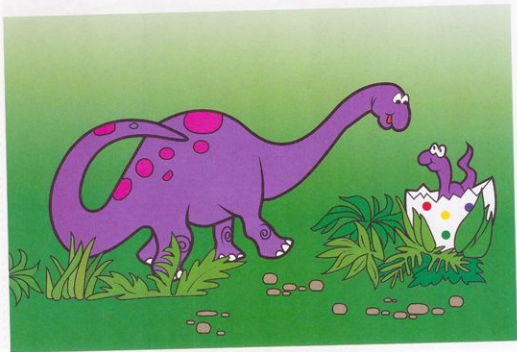


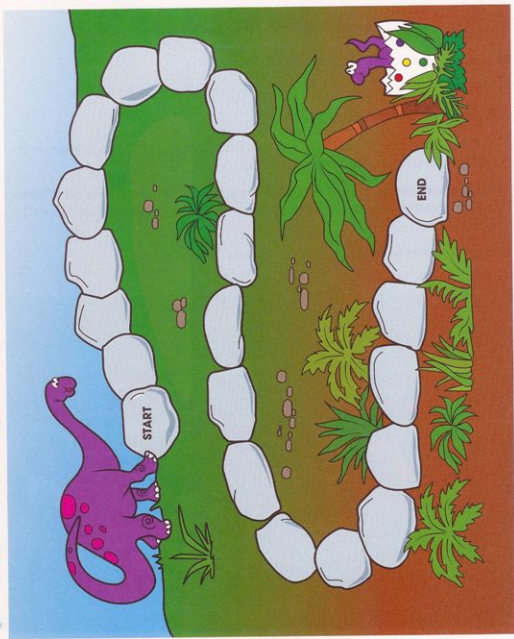
Can You Count It?

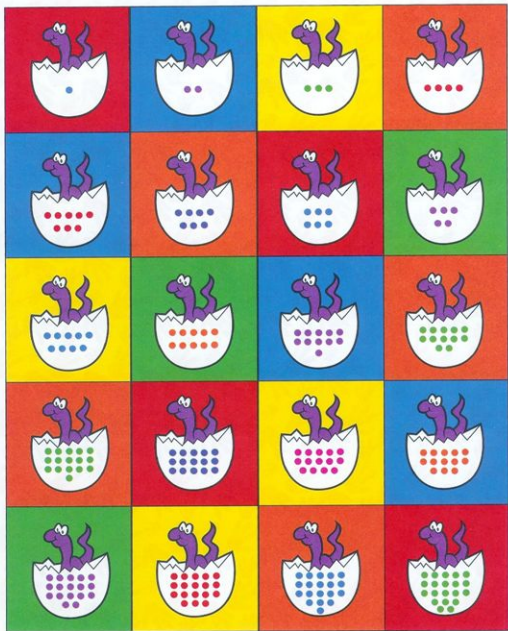
Help the mother dinosaur find her baby!

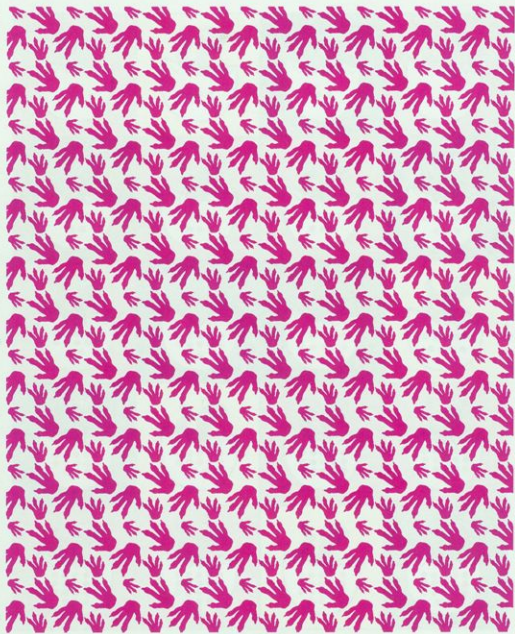
To Play:

1. Use the gameboard on page 268.
2. Cut out the game cards on page 269, mix them up, and place them in a pile facedown next to the gameboard.
3. Each player draws a card and then counts the number of dots on it. If the player counts correctly, he or she moves his or her game marker forward one space.
4. The first player to reach the stone marked "Finish" wins!









Dinosaur Memory Match

Object: To improve concentration and visual memory skills while having fun and learning about dinosaurs!

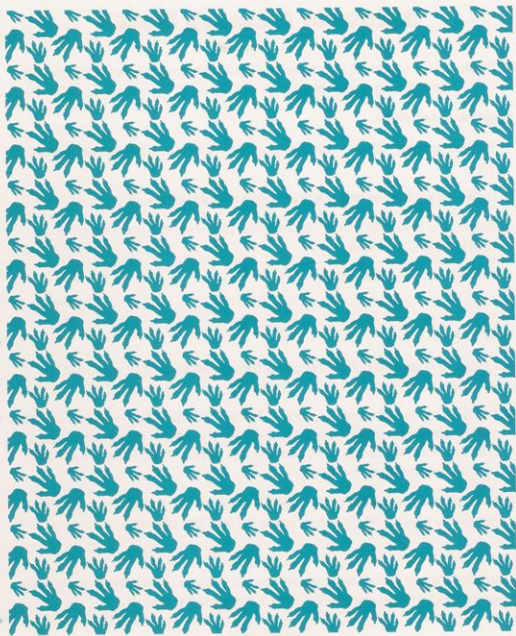
Beginning Activities:

1. Tear out pages 273–279 from the book and lay out all the pages in front of you.
2. Look at the pictures and say the name of each dinosaur.
3. Name any interesting facts about these dinosaur that you remember learning from this book.
4. Carefully cut out the cards.

How to Play:

1. Mix up and spread out all the cards facedown in front of you on a flat surface.
2. The first player turns over two cards. If the cards match, the player puts the pair of cards in a pile in front of him or her. The player continues playing until the cards he or she turns over do not match. The player returns the unmatched cards to the game pile.
3. Each player follows the same procedure. When all the game cards are gone, the player with the most cards in his or her pile wins.

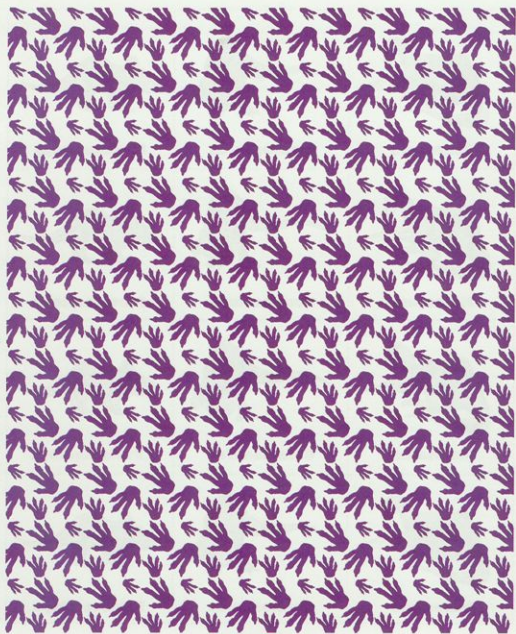
Hint: Each player should try to remember where the unmatched cards have been placed so they can be located if a match is found.



**Corythosaurus****Stegosaurus****Apatosaurus****Corythosaurus****Stegosaurus****Apatosaurus****Corythosaurus****Stegosaurus****Apatosaurus****Corythosaurus****Stegosaurus****Apatosaurus**



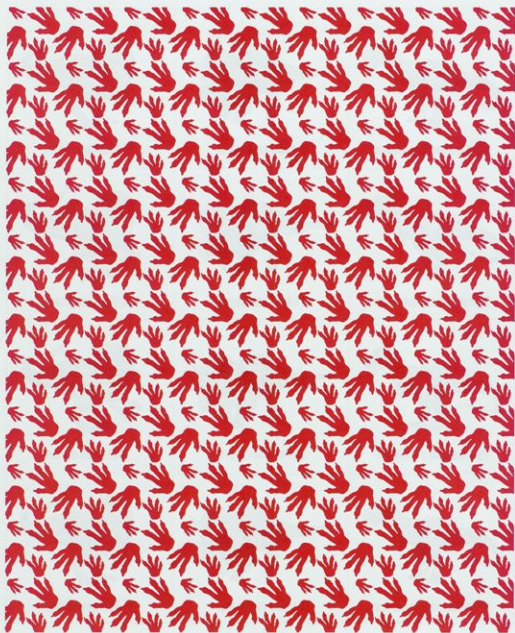
**Maiasaura****Ceratosaurus****Protoceratops****Maiasaura****Ceratosaurus****Protoceratops****Maiasaura****Ceratosaurus****Protoceratops****Maiasaura****Ceratosaurus****Protoceratops**



**Parasaurolophus****Brachiosaurus****Compsognathus****Parasaurolophus****Brachiosaurus****Compsognathus****Parasaurolophus****Brachiosaurus****Compsognathus****Parasaurolophus****Brachiosaurus****Compsognathus**



**Tyrannosaurus****Triceratops****Allosaurus****Tyrannosaurus****Triceratops****Allosaurus****Tyrannosaurus****Triceratops****Allosaurus****Tyrannosaurus****Triceratops****Allosaurus**



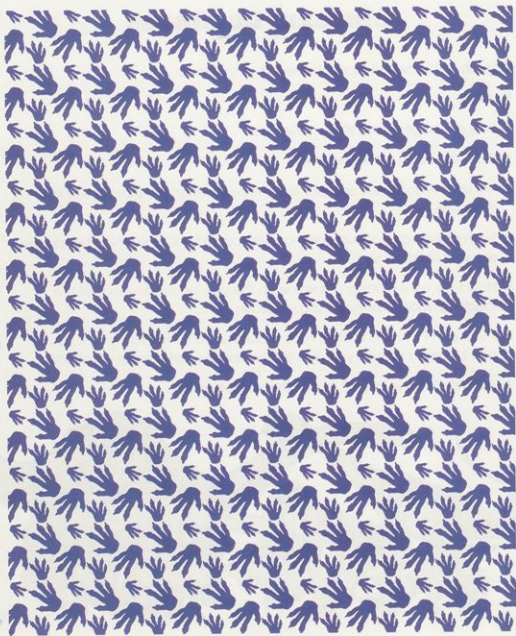
Dinosaur Dominoes

Object: To be the first player to be out of dominoes

To Play:

1. Tear out pages 283–289 from the book.
2. Carefully cut out the dominoes.
3. Mix up the dominoes and put them facedown on the playing surface in a draw pile.
4. Each player takes seven dominoes. Be careful not to let the other players see your dominoes!
5. Now take turns placing a domino on the playing surface so that the touching ends have matching dinosaurs.
6. If you can't make a match, take a domino from the draw pile. If you still can't make a match, your turn is over and the next player proceeds.
7. The first player to be out of dominoes is the winner.

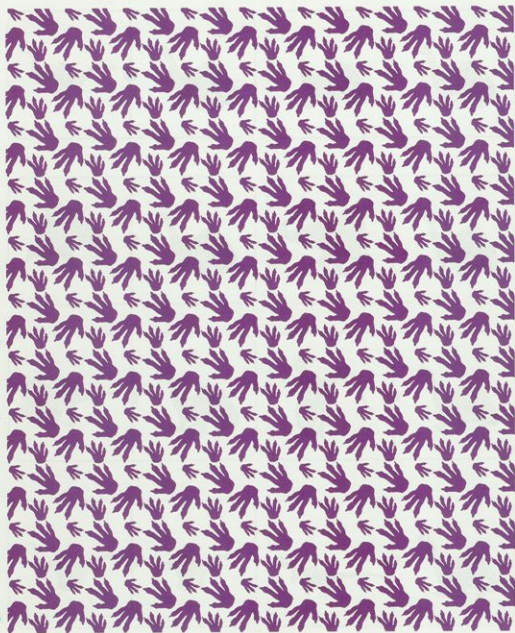




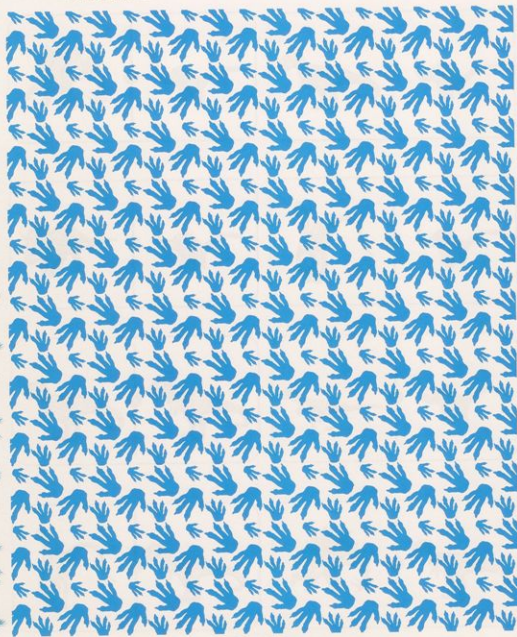
















Dino-Mite!



Object: To be the player who has collected the most cards.

To Play:

1. Tear out pages 293–309 from the book. Carefully cut out the cards.
2. One player mixes up the cards and deals all of them face down to the other players. Players keep their cards facedown and do not look at them.
3. The first player lays one card face up to start the discard pile. Then players take turns laying a card face up on top of this pile.
4. If two cards are played right after each other that both feature dinosaurs from the same time period, the first player to slap his or her hand on the pile and call out “Dino!” collects all of the cards in the pile. That round ends, and whoever has the next turn lays down a card to begin the discard pile again.
5. If a player slaps the pile in error, then he or she gives each of the other players one card from his or her “winnings” as a penalty.
6. The game ends when all the cards have been played. The player who has collected the most cards wins.

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Triceratops

Period: Cretaceous



Triceratops was about the size of an elephant. It had three horns on its large head. Its bony frill protected its neck.

Eoraptor

Period: Triassic



Eoraptor was about three to five feet long. It ran swiftly on two legs.

Kentrosaurus

Period: Jurassic



It had plates and spines along its back. These were probably used for protection.

Kentrosaurus was about the size of a large cow.

Herrerasaurus

Period: Triassic



Herrerasaurus is one of the oldest-known dinosaurs. It was about the size of a small car.

Hands-On Learning
Science
CARD • GAME
Dino-Mite!

Hands-On Learning
Science
CARD • GAME
Dino-Mite!

Hands-On Learning
Science
CARD • GAME
Dino-Mite!

Hands-On Learning
Science
CARD • GAME
Dino-Mite!

Syntarsus

Period: Triassic



It may have hunted in packs to attack larger dinosaurs.

Procompsognathus

Period: Triassic



Procompsognathus was about the height of a person.

It fed on small animals such as frogs and turtles.

Riojasaurus

Period: Triassic



Riojasaurus was about 36 feet long. Though it ate plants, it had sharp fangs like a meat-eating dinosaur.

Coelophysis

Period: Triassic



Coelophysis was only about nine feet long. Its slim body and long legs were built for speed.

Hands-On Learning

Science

CARD • GAME

Dino-Mite!

Hands-On Learning

Science

CARD • GAME

Dino-Mite!

Hands-On Learning

Science

CARD • GAME

Dino-Mite!

Hands-On Learning

Science

CARD • GAME

Dino-Mite!

Scelidosaurus

Period: Jurassic

Scelidosaurus was about 13 feet long. It had an armor of bony plates that covered much of its body.

**Plateosaurus**

Period: Triassic

Plateosaurus was about 26 feet long. It ate plants near the ground or stood on its hind legs to feed from tree tops.

**Massospondylus**

Period: Triassic

Massospondylus was about as long as a car. It was a plant-eating dinosaur.

**Staurikosaurus**

Period: Triassic

Staurikosaurus was a fast runner. Though small compared to other dinosaurs, it was a fierce hunter.





Hands-On Learning
Science
CARD • GAME
Dino-Mite!

This is a template for a card. It features a dashed rectangular border. Inside the border is a decorative frame made of blue arrows pointing outwards. The text is centered within this frame.



Hands-On Learning
Science
CARD • GAME
Dino-Mite!

This is a template for a card, identical to the one in the top-left.



Hands-On Learning
Science
CARD • GAME
Dino-Mite!

This is a template for a card, identical to the others.



Hands-On Learning
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This is a template for a card, identical to the others.

Apatosaurus

Period: Jurassic

Apatosaurus was about 70 feet in length. It may have used its long, whiplike tail to defend itself.

**Brachiosaurus**

Period: Jurassic

Brachiosaurus stood as tall as a five-story building! Unlike other long-necked dinosaurs, its front legs were longer than its back legs.

**Allosaurus**

Period: Jurassic

Allosaurus was about 35 feet long. Its teeth had sawlike edges. Its front legs had sharp, curved claws for holding its prey.

**Stegosaurus**

Period: Jurassic

Stegosaurus used its spiky tail against enemies. Scientists think the plates on its back helped keep it cool or warm.



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Heterodontosaurus

Period: Jurassic

Heterodontosaurus was a plant eater. Unlike most dinosaurs that had only one kind of tooth, it had three kinds of teeth.

**Diplodocus**

Period: Jurassic

Diplodocus was almost 90 feet long—longer than a tennis court!

Much of its length came from its neck and tail.

**Dilophosaurus**

Period: Jurassic

Dilophosaurus was one of the earliest meat-eating dinosaurs. It had a bony crest on its head that looked like two plates standing on edge.

**Megalosaurus**

Period: Jurassic

Megalosaurus was the first dinosaur to be named and described. This large meat-eater walked on two legs.



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Ceratosaurus

Period: Jurassic



Ceratosaurus was almost 20 feet in length. It had bony ridges over its eyes and a small horn on its snout.

Lesothosaurus

Period: Jurassic



Lesothosaurus was three feet long. Its narrow, beak-shaped mouth suggests that it ate plants.

Compsognathus

Period: Jurassic



Compsognathus was the size of a chicken. It ran swiftly on two legs. It ate lizards, frogs, and other small animals.

Parasaurolophus

Period: Cretaceous



Parasaurolophus had a long head crest that curved backwards. Scientists think this dinosaur blew air through the crest to make noises.

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Corythosaurus

Period: Cretaceous

Corythosaurus had a hollow crest on its head. The crest was shaped like a dinner plate. Scientists think it may have been used to make sounds.

**Maiaasaura**

Period: Cretaceous

Maiaasaura was about 30 feet long. This plant-eater had a long face and a flat, ducklike beak.

**Struthiomimus**

Period: Cretaceous

Struthiomimus looked somewhat like an ostrich. It had a small head, beaklike jaw, and long, powerful back legs.

**Deinonychus**

Period: Cretaceous

Deinonychus was a fast-moving dinosaur. It slashed its prey with its long, sharp claws.



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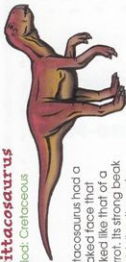
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Psittacosaurus

Period: Cretaceous



Psittacosaurus had a beaked face that looked like that of a parrot. Its strong beak could slice through woody stems and crack seeds and nuts.

Tyrannosaurus

Period: Cretaceous



Tyrannosaurus was the largest of the meat-eating dinosaurs. It was about 46 feet long and 19 feet tall. Its jaws were lined with teeth that were seven inches long.

Iguanodon

Period: Cretaceous



Iguanodon was a large plant-eating dinosaur. It had a spiked thumb on each hand that may have been used for defense.

Oviraptor

Period: Cretaceous



Oviraptor had no teeth, but it had a powerful beak. Scientists think it ate the eggs of other dinosaurs.

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Dino-Mite!

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Dino-Mite!

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Dino-Mite!

Protoceratops

Period: Cretaceous

Protoceratops was one of the first horned dinosaurs. Instead of true horns, it had bony lumps on its skull. It also had a shield of bone around its neck.



Velociraptor

Period: Cretaceous

Velociraptor was a fierce meat-eating dinosaur. It had long legs, a narrow head, and sharp teeth and claws.



Euoplocephalus

Period: Cretaceous

Euoplocephalus had a body covered by an armor of bony plates and spikes. Its heavy tail club was a powerful weapon.



Edmontosaurus

Period: Cretaceous

Edmontosaurus lived in herds. The front of its snout was toothless, but it had about 1,000 teeth in its cheek region for shredding plants.



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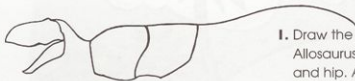
Dino-Mite!

How to Draw Dinosaurs



Draw Allosaurus

Allosaurus was a powerful meat-eating predator that dominated the earth long before Tyrannasaurus rex lived.



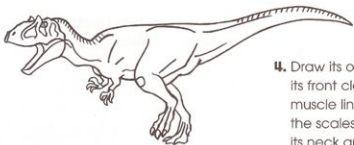
1. Draw the outline of Allosaurus's head, body, and hip. Attach the top of its neck and tail.



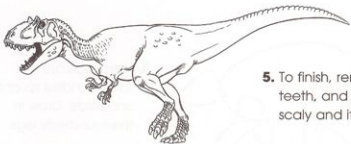
2. Begin to add its arms and legs, and finish its neck and tail. Add facial features, including the two small horns atop its head.



3. Add more detail to its face, as well as muscle definition along its body. Further render its legs, including one foot.



4. Draw its other foot, its front claws, and more muscle lines. Also, add the scales running down its neck and tail. Erase any unneeded lines.



5. To finish, render the dinosaur's teeth, and make its skin appear scaly and its feet bony.

Draw Ankylosaurus

Ankylosaurus was a plant-eating dinosaur covered with armored plates.

1. First draw a rounded rectangle for the body of Ankylosaurus.



2. Now draw a triangular head using curved lines as shown. Extend a curved tail line past the body. Draw a circle at the end of the tail to form a club shape.



3. Next, indicate the tail's rounded tip and underside. Draw in the four sturdy legs.

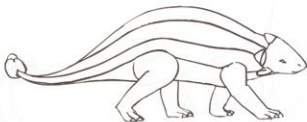




4. Add the upper and lower necklines. Next draw the eye, the nostril, the mouth, and the triangular spikes around the head. Sketch in the feet.

5. Pencil in the toes and claws.

Erase all unnecessary lines on your creature and detail the tail club as shown. Draw curved lines from the head to the tail to indicate the separate rows of armor plates.

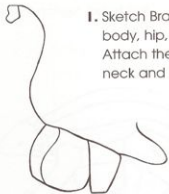


6. Now it's time to add armor. Cross the lines you've already drawn with shorter lines running from the top of the body to the underside. Draw a backward-curving spike inside each square as shown. Note that the spikes are smaller toward the tail. Crosshatch around the legs, face, and tail. Shade the spikes and the tail club, and fill in the eye and nostril. Give the tail texture by adding tiny triangles in the lower portion as shown



Draw Brachiosaurus

Brachiosaurus may have been 46 feet tall, 73 feet long, and could have weighed up to 160,000 pounds.



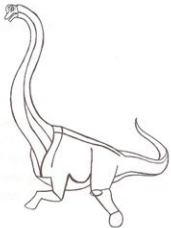
1. Sketch Brachiosaurus's body, hip, and head. Attach the top of its long neck and tail.



2. Add facial detail, and complete its neck and tail. Begin to form its legs as shown.



3. Render muscle definition on its neck and body, and complete two of its legs.



4. Add its eye pupil and more muscle lines. Create its other two legs, and erase unneeded lines.



5. Draw its spikes, and detail its legs and feet as shown. Also, add wrinkles as shown. Erase any other unneeded lines.

Draw Coelophysis

Coelophysis was a small but vicious carnivore that, on occasion, even ate its own young.



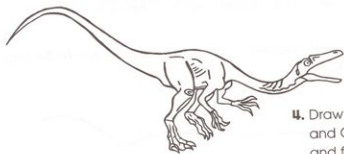
1. Outline its head and body, and then attach the top of its long, slender neck and tail.



2. Complete its neck and tail, and begin to form its arms and legs.



3. Sketch some facial features and the lower section of its arms and legs. Add muscle definition, and erase the line between its body and tail.



4. Draw more muscle definition and Coelophysis's hands and feet. Insert its eye pupil, and erase unneeded lines.



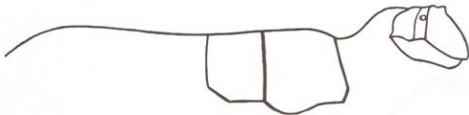
5. To finish your drawing, add the dinosaur's back and mouth spikes, as well as its teeth. Shade around its eye, refine its claws, and add more muscle lines.

Draw Giganotosaurus

Giganotosaurus is the only meat-eating dinosaur discovered to be larger than Tyrannosaurus rex.



1. Start by drawing the top of this dinosaur's neck, body, and tail.

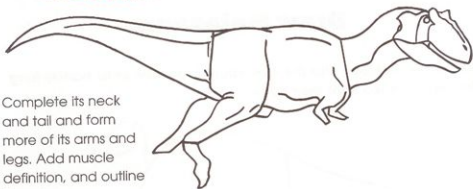


2. Add the rest of its body with the hip, as well as its head. Sketch its eye.

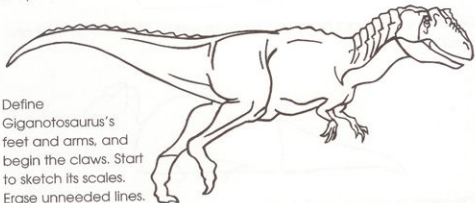


3. Further define its head, and begin to render its arms and legs.

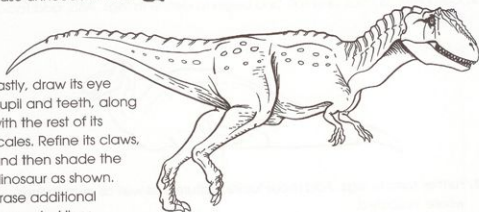
4. Complete its neck and tail and form more of its arms and legs. Add muscle definition, and outline its eye.



5. Define Giganotosaurus's feet and arms, and begin the claws. Start to sketch its scales. Erase unneeded lines.



6. Lastly, draw its eye pupil and teeth, along with the rest of its scales. Refine its claws, and then shade the dinosaur as shown. Erase additional unneeded lines.



Draw Maiasaura

Fossils have revealed that the Maiasaura took care of its babies long after they hatched from their eggs.



1. Sketch the dinosaur's head and body, as well as the top of its neck and back.



2. Complete its neck and tail, and begin to define its legs. Also, add facial features.



3. Further form its legs. Add more facial features, as well as muscle lines where indicated.



4. Finish outlining its legs, and then define the ridge on top of its head. Erase any unneeded lines.



5. To complete your Maiasaura, refine the head ridge, and sketch the ridges along its neck. Draw wrinkles where shown, and add its claws.

Draw Stegosaurus

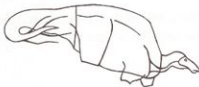
Stegosaurus, one of the most famous dinosaurs, used its flexible, spiked tail as a weapon.



1. First draw the top of Stegosaurus's neck, body, and tail.

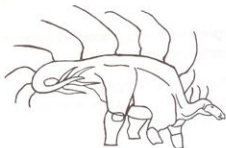


2. Sketch the outline of its head, and complete its body and tail. Begin to form one of its legs.



3. Draw the upper section of its other front leg and its visible hip. Add detail to its face, muscle lines on its body, and some of its tail spikes.

4. Sketch the rest of its tail spikes, as well as the spikes along its back and neck. Continue to render its facial features and its legs.



5. Complete its spikes so they look thick and powerful. Refine its legs. Add feet and toes, and erase any unneeded lines.

6. To finish your drawing, erase the ankle lines, and refine the feet. Also, detail the body and spikes as shown.



Draw Stygimoloch

Stygimoloch was a smaller version of Pachycephalosaurus with long horns on its head.

1. Begin by outlining Stygimoloch's head, body, and hip. Add the top of its neck and tail.



2. Sketch its eye, mouth, and the small horns growing around its skull. Complete its neck and tail, adding muscle lines. Begin to form its arms and legs, adding its front paws.

3. Attach the large horns jutting from the top of its head. Add its feet and more muscle definition. Erase unneeded lines.



4. Finish by drawing spines down Stygimoloch's back and refining the details on its arms and legs. Also, add the spots and wrinkles on its body where shown.

Amphibians – Animals that can live on land but must keep their skin wet and return to the water to lay eggs.

Armor – The protective covering on the body of an animal.

Archaeopteryx – The oldest known bird thought to have lived about 150 million years ago. Although it is believed that Archaeopteryx developed from a dinosaur, it is not a dinosaur.

Asteroid – A small planet or celestial body that orbits a sun; nearly all asteroids are rocky.

Asteroid Crash Theory – The belief by some scientists that a huge asteroid crashed into the earth, creating a massive dust cloud that blocked the sun. This caused the earth to become cold and the dinosaurs to starve and freeze.

Buckland, Professor William – Discovered and named Megalosaurus, the first dinosaur ever to be described scientifically.

Carnivores – Animals that eat other animals; also called meat-eaters.

Cenozoic Era – Also known as the "Age of Mammals." The Cenozoic Era began about 65 million years ago and has continued to the present day.

Climate Theory – The belief that the movement of the continents and shrinking oceans separated the land and made the earth cooler. This caused the dinosaurs to freeze and starve.

Cold-Blooded – Animals that do not produce enough heat from their body processes to keep their body temperature high, such as crocodiles and lizards. These animals need to absorb heat from their environment to be active.

Crest – A fan or tube-shaped top on some duck-billed dinosaurs' heads that may have been used as an echo chamber to help the dinosaur make sounds. Other scientists believe that it may have helped the dinosaur smell.

Cretaceous Period – The third and final period during the Mesozoic Era, lasting from 144 million years ago to 65 million years ago.

Defend – To protect against danger or an attack.

Evolution – Development by a species from one generation to another.

Extinction – The action of dying out by a group of species.

Frill – A sheet of bone on the heads of some dinosaurs, such as Triceratops, that protected their necks.

Fossils – Remnants, impressions, or traces of organisms of the past that have been preserved as rock in the earth's crust.

Gastroliths – Stones or small pebbles used by some dinosaurs to crush food in their stomachs.

Hatch – To emerge from an egg when ready to be born.

Hadrosaurs – Dinosaurs that had wide, duck-like mouths and rows of teeth in their cheeks.

Herbivores – Animals that eat plants, also called plant-eaters.

Herd – A group of animals of one kind that live or travel together.

Impression – A form or shape that can occur when one object touches another.

Jurassic Period – The second period during the Mesozoic Era, lasting from 208 million years ago to 144 million years ago.

Mantell, Dr. Gideon – One of the first fossil hunters; he named *Iguanodon*.

Mate – Either member of a pair of animals that can produce babies together.

Mesozoic Era – Also known as the “Age of Reptiles.” This era lasted from 245 million years ago to 65 million years ago. There were three periods during the Mesozoic Era: Triassic, Jurassic, and Cretaceous.

Migration – To travel from one place to another.

Omnivore – Animals that eat plants and meat.

Ornithischia – Dinosaurs whose hips were like the hips of birds, with the two lower hipbones close together and pointing backward. Only herbivores could be Ornithischia.

Ornithomimosaurs – Meat-eating dinosaurs with beaks, small heads, long necks, and long legs.

Paleontologists – Scientists who study fossil remains to learn about the earth and its inhabitants of long ago.

Pangaea – A “super continent.” When dinosaurs first appeared, all of earth’s continents were joined together as one. They slowly broke apart into the formation that we know today.

Plates – Pieces of armor, or protective covering, on an animal’s body usually made of bone. They may have also been used to adjust body temperature.

Plesiosaurs – Ocean-dwelling reptiles that lived during the Mesozoic Era. They were not dinosaurs.

Predator – An animal that hunts other animals for food.

Primates – Mammals that are the ancestors of monkeys, apes, and human beings.

Psittacosaurus – Dinosaurs that had long beaks at the front of their mouths.

Pterosaurs – Featherless, flying reptiles that lived during the Mesozoic Era. They were not dinosaurs.

Saurischia – Dinosaurs whose hips were like the hips of lizards, with their two lower hipbones separated, one pointing forward and one pointing backward. Both plant-eaters and meat-eaters could be Saurischia.

Sauropods – Plant-eating dinosaurs that had long necks and tails.

Scales – Sections of clearly marked, small, flattened, and hard areas on an animal's external body covering.

Scavenger – Animals that eat the meat of an animal they did not kill.

Sediments – Mud, sand, and gravel that hardens together to form stone. Most dinosaur fossils are found in sedimentary rocks.

Skeleton – The strong protective structure that supports an animal's body. It may be inside or outside the body.

Skulls – The hard, bony structure inside the heads of animals that have an internal skeleton. The skull encloses and protects the brain and chief sense organs and supports the jaws.

Thecodonts – An ancient group of lizards believed to have evolved into dinosaurs.

Triassic Period – The first period during the Mesozoic Era, lasting from 245 million years ago to 208 million years ago.

Volcano Theory – The belief that volcanic eruptions over thousands of years ago created dust clouds that blocked the sun. This caused the dinosaurs to freeze and starve.

Warm-Blooded – Animals that produce enough heat from their body processes to keep their body temperature high, such as mammals and bird. These animals can be active all the time.

Did Dinosaurs Migrate?

1. What continents might have been apart?
Pangaea began to break up about 180 million years ago.

2. Why did dinosaurs on each continent in the world?
Dinosaurs lived with the continents as Pangaea broke apart.

3. What do you think happened first?
Sample answer: One large land of water called Pangea broke apart.

4. How were continents on each of opposite sides apart? Name them.
There are seven continents: North America, South America, Antarctica, Africa, Europe, Asia and Australia.

19

Did Dinosaurs Migrate?

1. What does the map show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

2. What does the map show?
☒ North to South
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☒ North to South
☒ South to North

3. What does the map show?
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☒ North to South
☒ South to North

4. What does the map show?
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☒ North to South
☒ South to North

20

Did Dinosaurs Migrate?

1. What does the map show?
☒ North to South
☒ South to North
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2. What does the map show?
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3. What does the map show?
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☒ South to North

4. What does the map show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

21

Word Search Activity

1. What does the word search activity show?
Sample answer: The word search activity shows the word search activity.

2. What does the word search activity show?
Sample answer: The word search activity shows the word search activity.

3. What does the word search activity show?
Sample answer: The word search activity shows the word search activity.

4. What does the word search activity show?
Sample answer: The word search activity shows the word search activity.

22

Get a Clue!

1. What does the clue show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

2. What does the clue show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

3. What does the clue show?
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☒ South to North
☒ North to South
☒ South to North

4. What does the clue show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

23

What Was the Biggest Dinosaur?

1. What does the map show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

2. What does the map show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

3. What does the map show?
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☒ South to North
☒ North to South
☒ South to North

4. What does the map show?
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☒ South to North
☒ North to South
☒ South to North

24

Did Dinosaurs Migrate?

1. What does the map show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

2. What does the map show?
☒ North to South
☒ South to North
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☒ South to North

3. What does the map show?
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☒ South to North
☒ North to South
☒ South to North

4. What does the map show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

25

What Was the Smallest Dinosaur?

1. What does the map show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

2. What does the map show?
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☒ North to South
☒ South to North

3. What does the map show?
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☒ South to North
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☒ South to North

4. What does the map show?
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☒ South to North

26

Did Dinosaurs Migrate?

1. What does the map show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

2. What does the map show?
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☒ South to North

3. What does the map show?
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☒ South to North

4. What does the map show?
☒ North to South
☒ South to North
☒ North to South
☒ South to North

27

What Were Dinosaurs?

1. What are the dinosaurs that are larger than you? **Velociraptor and Coelophosaurus were smaller than a child.**

2. What are the dinosaurs that are smaller than you? **Triceratops and Spinosaurus were smaller than a child.**

3. Can you find a dinosaur that is about the size of a dog? **Sample answer: A T-Rex foot.**

4. Can you find a dinosaur that is about the size of a car? **Sample answer: An Apatosaurus.**

5. Can you find a dinosaur that is about the size of a truck? **Sample answer: An Apatosaurus.**

29

Crossword Activity

Draw the puzzle grid. Then, complete the puzzle using the word clues.

Across

1. A dinosaur that is about the size of a car. **Triceratops**

2. A dinosaur that is about the size of a truck. **Apatosaurus**

3. A dinosaur that is about the size of a dog. **Velociraptor**

4. A dinosaur that is about the size of a child. **Coelophosaurus**

Down

1. A dinosaur that is about the size of a car. **Triceratops**

2. A dinosaur that is about the size of a truck. **Apatosaurus**

3. A dinosaur that is about the size of a dog. **Velociraptor**

4. A dinosaur that is about the size of a child. **Coelophosaurus**

30

How Long Were Dinosaurs?

Draw a line graph to show the length of dinosaurs. Use the graph to answer the questions.

Across will vary.

31

What Were the Two Main Groups of Dinosaurs?

Dinosaurs are divided into two main groups based on the arrangement of their bones.

For Ornithomimids: The Ornithomimids were the first group of dinosaurs. They had two main groups of bones: the **Ornithomimids** and the **Ornithomimids**.

For Ornithomimids: The Ornithomimids were the first group of dinosaurs. They had two main groups of bones: the **Ornithomimids** and the **Ornithomimids**.

1. What are the two main groups of dinosaurs? **The Ornithomimids and the Ornithomimids.**

2. How are the two main groups of dinosaurs related? **The Ornithomimids were the first group of dinosaurs, and the Ornithomimids were the first group of dinosaurs.**

32

What Were the Two Main Groups of Dinosaurs?

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2. How are the two main groups of dinosaurs related? **The Ornithomimids were the first group of dinosaurs, and the Ornithomimids were the first group of dinosaurs.**

33

What Were Meat-eating Dinosaurs?

Meat-eating dinosaurs are called **meat-eating dinosaurs**. They are divided into two main groups: the **meat-eating dinosaurs** and the **meat-eating dinosaurs**.

For Meat-eating Dinosaurs: The meat-eating dinosaurs were the first group of dinosaurs. They had two main groups of bones: the **meat-eating dinosaurs** and the **meat-eating dinosaurs**.

For Meat-eating Dinosaurs: The meat-eating dinosaurs were the first group of dinosaurs. They had two main groups of bones: the **meat-eating dinosaurs** and the **meat-eating dinosaurs**.

1. What are the two main groups of dinosaurs? **The meat-eating dinosaurs and the meat-eating dinosaurs.**

2. How are the two main groups of dinosaurs related? **The meat-eating dinosaurs were the first group of dinosaurs, and the meat-eating dinosaurs were the first group of dinosaurs.**

34

What Were Plant-eating Dinosaurs?

Plant-eating dinosaurs are called **plant-eating dinosaurs**. They are divided into two main groups: the **plant-eating dinosaurs** and the **plant-eating dinosaurs**.

For Plant-eating Dinosaurs: The plant-eating dinosaurs were the first group of dinosaurs. They had two main groups of bones: the **plant-eating dinosaurs** and the **plant-eating dinosaurs**.

For Plant-eating Dinosaurs: The plant-eating dinosaurs were the first group of dinosaurs. They had two main groups of bones: the **plant-eating dinosaurs** and the **plant-eating dinosaurs**.

1. What are the two main groups of dinosaurs? **The plant-eating dinosaurs and the plant-eating dinosaurs.**

2. How are the two main groups of dinosaurs related? **The plant-eating dinosaurs were the first group of dinosaurs, and the plant-eating dinosaurs were the first group of dinosaurs.**

35

What Were Nippers, Rippers, and Grinders?

Nippers, rippers, and grinders are the three main groups of dinosaurs. They are divided into two main groups: the **nippers, rippers, and grinders** and the **nippers, rippers, and grinders**.

For Nippers, Rippers, and Grinders: The nippers, rippers, and grinders were the first group of dinosaurs. They had two main groups of bones: the **nippers, rippers, and grinders** and the **nippers, rippers, and grinders**.

For Nippers, Rippers, and Grinders: The nippers, rippers, and grinders were the first group of dinosaurs. They had two main groups of bones: the **nippers, rippers, and grinders** and the **nippers, rippers, and grinders**.

1. What are the three main groups of dinosaurs? **The nippers, rippers, and grinders.**

2. How are the three main groups of dinosaurs related? **The nippers, rippers, and grinders were the first group of dinosaurs, and the nippers, rippers, and grinders were the first group of dinosaurs.**

36

What Is the Difference?

The difference between the two groups of dinosaurs is the **difference between the two groups of dinosaurs**.

For the Difference: The difference between the two groups of dinosaurs is the **difference between the two groups of dinosaurs**.

For the Difference: The difference between the two groups of dinosaurs is the **difference between the two groups of dinosaurs**.

1. What is the difference between the two groups of dinosaurs? **The difference between the two groups of dinosaurs.**

2. How are the two groups of dinosaurs related? **The difference between the two groups of dinosaurs.**

37

Which Was Which?

Circle the dinosaurs below and color them using the key below.

Key:

- ☐ Sauropod
- ☐ Theropod
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid

38

Which Was Which?

Circle the dinosaurs below and color them using the key below.

Key:

- ☐ Sauropod
- ☐ Theropod
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid

39

What Did Dinosaurs Use Their Claws For?

Write in a position, such as a dinosaur, and use the key below to color the key.

Key:

- ☐ Spinosaur
- ☐ Spinosaur
- ☐ Spinosaur
- ☐ Spinosaur

1. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

2. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

40

Which Was Which?

Circle the dinosaurs below and color them using the key below.

Key:

- ☐ Sauropod
- ☐ Theropod
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid

1. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

2. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

41

Which Was Which?

Circle the dinosaurs below and color them using the key below.

Key:

- ☐ Sauropod
- ☐ Theropod
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid

1. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

2. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

43

Why Did Some Dinosaurs Have Armor Plates?

Write in a position, such as a dinosaur, and use the key below to color the key.

Key:

- ☐ Spinosaur
- ☐ Spinosaur
- ☐ Spinosaur
- ☐ Spinosaur

1. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

2. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

44

Which Was Which?

Circle the dinosaurs below and color them using the key below.

Key:

- ☐ Sauropod
- ☐ Theropod
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid
- ☐ Ornithomimid

1. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

2. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

45

What Are Ptilia?

Write in a position, such as a dinosaur, and use the key below to color the key.

Key:

- ☐ Spinosaur
- ☐ Spinosaur
- ☐ Spinosaur
- ☐ Spinosaur

1. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

2. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

46

How Do I Defend Myself?

Write in a position, such as a dinosaur, and use the key below to color the key.

Key:

- ☐ Spinosaur
- ☐ Spinosaur
- ☐ Spinosaur
- ☐ Spinosaur

1. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

2. The claws of a dinosaur were used for:

- ☐ Digging
- ☐ Digging
- ☐ Digging
- ☐ Digging

47

What Did Dinosaurs Use Their Tails For?

For many dinosaurs, their tails had important functions, such as for balance, support, and defense. Some dinosaurs used their tails to whip around and strike enemies. Others used their tails to support their bodies when they stood or walked.

Some dinosaurs had long, thin tails. For example, the long-necked sauropods had long, thin tails that helped them balance. Other dinosaurs had short, thick tails that they used for defense.

Some dinosaurs even had special structures on their tails that helped them climb trees.

1. Tail of a dinosaur that is long and thin.
☐ long-necked sauropod
☒ long-necked sauropod
☐ short-necked sauropod
☐ short-necked sauropod

2. Tail of a dinosaur that is short and thick.
☐ long-necked sauropod
☒ short-necked sauropod
☐ long-necked sauropod
☐ short-necked sauropod

3. Tail of a dinosaur that is long and thin.
☐ long-necked sauropod
☒ long-necked sauropod
☐ short-necked sauropod
☐ short-necked sauropod

4. Tail of a dinosaur that is short and thick.
☐ long-necked sauropod
☒ short-necked sauropod
☐ long-necked sauropod
☐ short-necked sauropod

48

What Did Dinosaurs Use Their Tails For?

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Some dinosaurs had long, thin tails. For example, the long-necked sauropods had long, thin tails that helped them balance. Other dinosaurs had short, thick tails that they used for defense.

Some dinosaurs even had special structures on their tails that helped them climb trees.

1. Tail of a dinosaur that is long and thin.
☐ long-necked sauropod
☒ long-necked sauropod
☐ short-necked sauropod
☐ short-necked sauropod

2. Tail of a dinosaur that is short and thick.
☐ long-necked sauropod
☒ short-necked sauropod
☐ long-necked sauropod
☐ short-necked sauropod

3. Tail of a dinosaur that is long and thin.
☐ long-necked sauropod
☒ long-necked sauropod
☐ short-necked sauropod
☐ short-necked sauropod

4. Tail of a dinosaur that is short and thick.
☐ long-necked sauropod
☒ short-necked sauropod
☐ long-necked sauropod
☐ short-necked sauropod

49

Did Dinosaurs Live Alone or in Groups?

Scientists have found many clues about whether dinosaurs lived alone or in groups. Some dinosaurs lived alone, while others lived in groups. Some dinosaurs lived in groups that were made up of many different species, while others lived in groups that were made up of only one species.

Some dinosaurs lived alone, while others lived in groups. Some dinosaurs lived in groups that were made up of many different species, while others lived in groups that were made up of only one species.

1. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

2. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

3. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

4. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

50

What Is a Group of Dinosaurs Called?

Scientists have found many clues about whether dinosaurs lived alone or in groups. Some dinosaurs lived alone, while others lived in groups. Some dinosaurs lived in groups that were made up of many different species, while others lived in groups that were made up of only one species.

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51

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 Scientists think that many dinosaurs lived in groups for protection.

4. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

52

What Is the Secret Word?

Use the letters that are in the boxes to make a secret word. The letters are: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

1. The secret word is: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z.

2. The secret word is: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z.

3. The secret word is: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z.

4. The secret word is: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z.

53

How Fast Did Dinosaurs Run?

Scientists have found many clues about whether dinosaurs lived alone or in groups. Some dinosaurs lived alone, while others lived in groups. Some dinosaurs lived in groups that were made up of many different species, while others lived in groups that were made up of only one species.

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3. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

4. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

54

Word Search Activity

Use the letters in the boxes to make a secret word. The letters are: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

1. The secret word is: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z.

2. The secret word is: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z.

3. The secret word is: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z.

4. The secret word is: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z.

55

How Did Dinosaurs Reproduce?

Scientists have found many clues about whether dinosaurs lived alone or in groups. Some dinosaurs lived alone, while others lived in groups. Some dinosaurs lived in groups that were made up of many different species, while others lived in groups that were made up of only one species.

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2. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

3. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

4. Why do scientists think that many dinosaurs lived in groups?
 Scientists think that many dinosaurs lived in groups for protection.

56

What Is Its Name?

Can you name the most obscure dinosaur that is considered the earliest look-alike of a modern dinosaur? The Triceratops is the answer. It was the first dinosaur to have a large, bony frill and horns.

Brain Boggler

A. Triceratops B. T-Rex C. Stegosaurus
D. Spinosaurus E. Velociraptor F. Tyrannosaurus Rex
G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

Answers:
A. Triceratops B. T-Rex C. Stegosaurus
D. Spinosaurus E. Velociraptor F. Tyrannosaurus Rex
G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

66

What Were Duck-billed Dinosaurs?

Brain Boggler

A. Triceratops B. T-Rex C. Stegosaurus
D. Spinosaurus E. Velociraptor F. Tyrannosaurus Rex
G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

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67

What Were Duck-billed Dinosaurs?

Brain Boggler

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G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

68

What Were Parrot-beaked Dinosaurs?

Brain Boggler

A. Triceratops B. T-Rex C. Stegosaurus
D. Spinosaurus E. Velociraptor F. Tyrannosaurus Rex
G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

Answers:
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69

What Were Parrot-beaked Dinosaurs?

Brain Boggler

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D. Spinosaurus E. Velociraptor F. Tyrannosaurus Rex
G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
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70

What Were Parrot-beaked Dinosaurs?

Brain Boggler

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Answers:
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G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

71

What Were Long-Necks?

Brain Boggler

A. Triceratops B. T-Rex C. Stegosaurus
D. Spinosaurus E. Velociraptor F. Tyrannosaurus Rex
G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

Answers:
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G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

72

What Were Long-Necks?

Brain Boggler

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D. Spinosaurus E. Velociraptor F. Tyrannosaurus Rex
G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

Answers:
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D. Spinosaurus E. Velociraptor F. Tyrannosaurus Rex
G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

73

What Were Ornithomimid Dinosaurs?

Brain Boggler

A. Triceratops B. T-Rex C. Stegosaurus
D. Spinosaurus E. Velociraptor F. Tyrannosaurus Rex
G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

Answers:
A. Triceratops B. T-Rex C. Stegosaurus
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G. Triceratops H. Spinosaurus I. Tyrannosaurus Rex
J. Triceratops K. Spinosaurus L. Tyrannosaurus Rex

74

What Are Scientists Who Study Dinosaurs Called?

Scientists who study fossils are called **paleontologists**. Dinosaurs are extinct, so paleontologists search all over the world for fossils. What are fossils? Fossils are the remains of plants and animals that lived long ago. Fossils can be found in rocks, soil, and even in ice. Fossils can tell us about the life of the past.



1. What are paleontologists called? (1 point)

Paleontologists search all over the world for dinosaur fossils.

2. What are paleontologists looking for when they dig in the ground? (1 point)
They look for fossils that are the remains of the past.

84

3. What are paleontologists looking for when they dig in the ground? (1 point)
They look for fossils that are the remains of the past.

4. What are paleontologists looking for when they dig in the ground? (1 point)
They look for fossils that are the remains of the past.

5. What are paleontologists looking for when they dig in the ground? (1 point)
They look for fossils that are the remains of the past.

6. What are paleontologists looking for when they dig in the ground? (1 point)
They look for fossils that are the remains of the past.

85

Where Do Paleontologists Look for Dinosaur Fossils?

Paleontologists look for dinosaur fossils all over the world. They look for fossils in rocks, soil, and even in ice. Fossils can tell us about the life of the past.



1. Where do paleontologists look for dinosaur fossils? (1 point)
They look for fossils all over the world.

2. Where do paleontologists look for dinosaur fossils? (1 point)
They look for fossils all over the world.

86

To What Group Do Dinosaurs Belong?

Dinosaurs belong to the group of animals called **reptiles**. Reptiles are cold-blooded animals that have scales. They lay eggs. Dinosaurs are the largest reptiles that ever lived.

1. To what group do dinosaurs belong? (1 point)
Reptiles.

2. To what group do dinosaurs belong? (1 point)
Reptiles.

3. To what group do dinosaurs belong? (1 point)
Reptiles.

87

What Do Paleontologists Do When They Find a Fossil?

When paleontologists find a fossil, they first clean it. Then they study it. They may draw a picture of it. They may also make a mold of it. Fossils can tell us about the life of the past.

1. What do paleontologists do when they find a fossil? (1 point)
They clean it and study it.

2. What do paleontologists do when they find a fossil? (1 point)
They clean it and study it.

3. What do paleontologists do when they find a fossil? (1 point)
They clean it and study it.

88

How Do Paleontologists Know How Dinosaurs Moved?

Paleontologists study the tracks of dinosaurs to know how they moved. They look for footprints in the ground. They may also find bones of the animals that made the tracks.



1. How do paleontologists know how dinosaurs moved? (1 point)
They study the tracks of dinosaurs.

2. How do paleontologists know how dinosaurs moved? (1 point)
They study the tracks of dinosaurs.

3. How do paleontologists know how dinosaurs moved? (1 point)
They study the tracks of dinosaurs.

90

4. How do paleontologists know how dinosaurs moved? (1 point)
They study the tracks of dinosaurs.

5. How do paleontologists know how dinosaurs moved? (1 point)
They study the tracks of dinosaurs.

6. How do paleontologists know how dinosaurs moved? (1 point)
They study the tracks of dinosaurs.

7. How do paleontologists know how dinosaurs moved? (1 point)
They study the tracks of dinosaurs.

8. How do paleontologists know how dinosaurs moved? (1 point)
They study the tracks of dinosaurs.

91

What Was Dinosaur Skin Like?

Dinosaur skin was scaly and bumpy. It was covered in scales. The scales were made of keratin. They were the same as the scales of a fish.

1. What was dinosaur skin like? (1 point)
It was scaly and bumpy.

2. What was dinosaur skin like? (1 point)
It was scaly and bumpy.

3. What was dinosaur skin like? (1 point)
It was scaly and bumpy.

92

Word Search

Find the words listed below in the word search.

1. What did dinosaurs wear? ☐ scales

2. What did dinosaurs eat? ☐ plants ☐ meat ☐ bones ☐ eggs

3. What did dinosaurs do? ☐ ran ☐ swam ☐ hibernated ☐ slept

4. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

5. What did dinosaurs live on? ☐ land ☐ water ☐ air ☐ space

6. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

7. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

8. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

9. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

10. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

93

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6. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

7. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

8. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

9. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

10. What did dinosaurs live in? ☐ water ☐ land ☐ air ☐ space

95

Were Dinosaurs Warm-blooded or Cold-blooded?

Read the passage and answer the questions.

Warm-blooded animals, such as humans and birds, have enough heat from their bodies to keep them warm. They can live in the cold.

Cold-blooded animals, such as reptiles and amphibians, do not make enough heat from their bodies to keep them warm. They need to live in a warm place.

Some scientists think that dinosaurs were warm-blooded. They think that dinosaurs had feathers. Feathers keep animals warm. Other scientists think that dinosaurs were cold-blooded. They think that dinosaurs had scales. Scales do not keep animals warm.

1. Do you think dinosaurs were warm-blooded? ☐ Yes ☐ No

2. Do you think dinosaurs were cold-blooded? ☐ Yes ☐ No

3. Do you think dinosaurs had feathers? ☐ Yes ☐ No

4. Do you think dinosaurs had scales? ☐ Yes ☐ No

96

Did Dinosaurs Have Good Eyesight?

Read the passage and answer the questions.

Some scientists think that dinosaurs had good eyesight. They think that dinosaurs had large eyes. They think that dinosaurs had good vision. They think that dinosaurs had good eyesight.

1. Do you think dinosaurs had good eyesight? ☐ Yes ☐ No

2. Do you think dinosaurs had large eyes? ☐ Yes ☐ No

3. Do you think dinosaurs had good vision? ☐ Yes ☐ No

4. Do you think dinosaurs had good eyesight? ☐ Yes ☐ No

97

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Some scientists think that dinosaurs had good eyesight. They think that dinosaurs had large eyes. They think that dinosaurs had good vision. They think that dinosaurs had good eyesight.

1. Do you think dinosaurs had good eyesight? ☐ Yes ☐ No

2. Do you think dinosaurs had large eyes? ☐ Yes ☐ No

3. Do you think dinosaurs had good vision? ☐ Yes ☐ No

4. Do you think dinosaurs had good eyesight? ☐ Yes ☐ No

98

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1. Do you think dinosaurs had good eyesight? ☐ Yes ☐ No

2. Do you think dinosaurs had large eyes? ☐ Yes ☐ No

3. Do you think dinosaurs had good vision? ☐ Yes ☐ No

4. Do you think dinosaurs had good eyesight? ☐ Yes ☐ No

99

Did Dinosaurs Make Sounds?

Read the passage and answer the questions.

Some scientists think that dinosaurs made sounds. They think that dinosaurs had a throat. They think that dinosaurs had a mouth. They think that dinosaurs had a nose. They think that dinosaurs had a head. They think that dinosaurs had a body. They think that dinosaurs had a tail. They think that dinosaurs had a leg. They think that dinosaurs had a foot. They think that dinosaurs had a hand. They think that dinosaurs had a finger. They think that dinosaurs had a toe. They think that dinosaurs had a nail. They think that dinosaurs had a hair. They think that dinosaurs had a skin. They think that dinosaurs had a bone. They think that dinosaurs had a muscle. They think that dinosaurs had a nerve. They think that dinosaurs had a blood vessel. They think that dinosaurs had a gland. They think that dinosaurs had a organ. They think that dinosaurs had a system. They think that dinosaurs had a body. They think that dinosaurs had a mind. They think that dinosaurs had a soul. They think that dinosaurs had a spirit. They think that dinosaurs had a ghost. They think that dinosaurs had a demon. They think that dinosaurs had a devil. They think that dinosaurs had a witch. They think that dinosaurs had a wizard. They think that dinosaurs had a sorcerer. They think that dinosaurs had a magician. They think that dinosaurs had a wizard. They think that dinosaurs had a sorcerer. They think that dinosaurs had a magician.

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3. Do you think dinosaurs had a mouth? ☐ Yes ☐ No

4. Do you think dinosaurs had a nose? ☐ Yes ☐ No

5. Do you think dinosaurs had a head? ☐ Yes ☐ No

6. Do you think dinosaurs had a body? ☐ Yes ☐ No

7. Do you think dinosaurs had a tail? ☐ Yes ☐ No

8. Do you think dinosaurs had a leg? ☐ Yes ☐ No

9. Do you think dinosaurs had a foot? ☐ Yes ☐ No

10. Do you think dinosaurs had a hand? ☐ Yes ☐ No

11. Do you think dinosaurs had a finger? ☐ Yes ☐ No

12. Do you think dinosaurs had a toe? ☐ Yes ☐ No

13. Do you think dinosaurs had a nail? ☐ Yes ☐ No

14. Do you think dinosaurs had a hair? ☐ Yes ☐ No

15. Do you think dinosaurs had a skin? ☐ Yes ☐ No

16. Do you think dinosaurs had a bone? ☐ Yes ☐ No

17. Do you think dinosaurs had a muscle? ☐ Yes ☐ No

18. Do you think dinosaurs had a nerve? ☐ Yes ☐ No

19. Do you think dinosaurs had a blood vessel? ☐ Yes ☐ No

20. Do you think dinosaurs had a gland? ☐ Yes ☐ No

21. Do you think dinosaurs had a organ? ☐ Yes ☐ No

22. Do you think dinosaurs had a system? ☐ Yes ☐ No

23. Do you think dinosaurs had a body? ☐ Yes ☐ No

24. Do you think dinosaurs had a mind? ☐ Yes ☐ No

25. Do you think dinosaurs had a soul? ☐ Yes ☐ No

26. Do you think dinosaurs had a spirit? ☐ Yes ☐ No

27. Do you think dinosaurs had a ghost? ☐ Yes ☐ No

28. Do you think dinosaurs had a demon? ☐ Yes ☐ No

29. Do you think dinosaurs had a devil? ☐ Yes ☐ No

30. Do you think dinosaurs had a witch? ☐ Yes ☐ No

31. Do you think dinosaurs had a wizard? ☐ Yes ☐ No

32. Do you think dinosaurs had a sorcerer? ☐ Yes ☐ No

33. Do you think dinosaurs had a magician? ☐ Yes ☐ No

100

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8. Do you think dinosaurs had a leg? ☐ Yes ☐ No

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27. Do you think dinosaurs had a ghost? ☐ Yes ☐ No

28. Do you think dinosaurs had a demon? ☐ Yes ☐ No

29. Do you think dinosaurs had a devil? ☐ Yes ☐ No

30. Do you think dinosaurs had a witch? ☐ Yes ☐ No

31. Do you think dinosaurs had a wizard? ☐ Yes ☐ No

32. Do you think dinosaurs had a sorcerer? ☐ Yes ☐ No

33. Do you think dinosaurs had a magician? ☐ Yes ☐ No

101

How Smart Were Dinosaurs?

Read the passage and answer the questions.

Some scientists think that dinosaurs were smart. They think that dinosaurs had a brain. They think that dinosaurs had a mind. They think that dinosaurs had a soul. They think that dinosaurs had a spirit. They think that dinosaurs had a ghost. They think that dinosaurs had a demon. They think that dinosaurs had a devil. They think that dinosaurs had a witch. They think that dinosaurs had a wizard. They think that dinosaurs had a sorcerer. They think that dinosaurs had a magician.

1. Do you think dinosaurs were smart? ☐ Yes ☐ No

2. Do you think dinosaurs had a brain? ☐ Yes ☐ No

3. Do you think dinosaurs had a mind? ☐ Yes ☐ No

4. Do you think dinosaurs had a soul? ☐ Yes ☐ No

5. Do you think dinosaurs had a spirit? ☐ Yes ☐ No

6. Do you think dinosaurs had a ghost? ☐ Yes ☐ No

7. Do you think dinosaurs had a demon? ☐ Yes ☐ No

8. Do you think dinosaurs had a devil? ☐ Yes ☐ No

9. Do you think dinosaurs had a witch? ☐ Yes ☐ No

10. Do you think dinosaurs had a wizard? ☐ Yes ☐ No

11. Do you think dinosaurs had a sorcerer? ☐ Yes ☐ No

12. Do you think dinosaurs had a magician? ☐ Yes ☐ No

102

What Other Kinds of Animals Lived When Dinosaurs Lived?

1. Which animal sometimes flies? _____
☒ small birds
☒ large birds
☒ winged dinosaurs
☒ bats

2. Which bird has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

3. Which bird has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

4. Which animal has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

103

Am I Smart?

Which of the animals below do you think swam in the sea? _____
☒ crocodile
☒ shark
☒ dolphin
☒ whale
☒ all of these animals

1. Which animal has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

2. Which bird has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

104

Crossword Activity

Draw the words in the crossword puzzle. Write the words in the spaces provided.

Across

1. A large dinosaur that lived in the sea. (10 letters)
 2. A large dinosaur that lived in the sea. (10 letters)
 3. A large dinosaur that lived in the sea. (10 letters)
 4. A large dinosaur that lived in the sea. (10 letters)

Down

1. A large dinosaur that lived in the sea. (10 letters)
 2. A large dinosaur that lived in the sea. (10 letters)
 3. A large dinosaur that lived in the sea. (10 letters)
 4. A large dinosaur that lived in the sea. (10 letters)

105

What Other Kinds of Animals Lived When Dinosaurs Lived?

1. Which animal sometimes flies? _____
☒ small birds
☒ large birds
☒ winged dinosaurs
☒ bats

2. Which bird has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

3. Which bird has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

4. Which animal has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

106

Am I Smart?

Which of the animals below do you think swam in the sea? _____
☒ crocodile
☒ shark
☒ dolphin
☒ whale
☒ all of these animals

1. Which animal has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

2. Which bird has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

107

What Were Plesiosaurs?

Plesiosaurs were long-necked marine reptiles that lived during the age of dinosaurs. They have been found swimming in the sea. They had long necks and small heads. They had four flippers and could swim very fast. They had long necks and small heads. They had four flippers and could swim very fast. They had long necks and small heads. They had four flippers and could swim very fast.

1. Which animal has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

2. Which bird has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

108

What Did Water-dwelling Creatures Look Like?

1. Which animal has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

2. Which bird has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

3. Which animal has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

4. Which animal has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

109

What Did Water-dwelling Creatures Look Like?

1. Which animal has a long neck? _____
☒ ostrich
☒ turkey
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☒ all of these animals

2. Which bird has a long neck? _____
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☒ turkey
☒ crane
☒ all of these animals

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☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

4. Which animal has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

110

What Do Scientists Know About Plesiosaurs?

Plesiosaurs were long-necked marine reptiles that lived during the age of dinosaurs. They have been found swimming in the sea. They had long necks and small heads. They had four flippers and could swim very fast. They had long necks and small heads. They had four flippers and could swim very fast. They had long necks and small heads. They had four flippers and could swim very fast.

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☒ turkey
☒ crane
☒ all of these animals

2. Which bird has a long neck? _____
☒ ostrich
☒ turkey
☒ crane
☒ all of these animals

111

What Were

Phonocetus was the dominant flying cephalopod that lived at the edge of the Cretaceous. Though initially considered to be a marine invertebrate, some scientists now believe it was a flying cephalopod that lived in the air. The fossilized remains of *Phonocetus* are found in the Cretaceous of North America, Europe, and Asia. It is the only flying cephalopod that has been found in the fossil record. It is the only flying cephalopod that has been found in the fossil record. It is the only flying cephalopod that has been found in the fossil record.



- They were featherless, flying reptiles that could reach a wingspan of up to 10 feet.

112

Stammers probably used all her teeth when walking.

3. What do you eat now?
They probably ate fish and small animals.
4. How do you drink glacial water when it's cold, like now?
Bergans answer: They could sweep them and pick up their food with their mouths.
5. What do you do now when you drink water?
Bergans answer: Digles, rollers, pelicans, and swans.

113

What Was Archaeopteryx?

Ardeotis is the oldest avian form. It had about 100 million years of radiating the Age of Dinosaurs. Archaeopteryx was about the size of modern birds, it flew and had a long tail and strong "feathers" (see the first image in the series). It had teeth and a very long beak. It was also able to fly. It had a long neck and a long tail. It was also able to fly. It had a long neck and a long tail. It was also able to fly.



1. The new stadium is the old one's twice.
- ☐ A) double
- ☒ B) twofold
- ☐ C) twofold
- ☐ D) two
2. It's just about _____ growth rate.
- ☒ A) 12 million
- ☐ B) 100 million
- ☐ C) 10 million
- ☐ D) 100 million

114

Were There Any People When Dinosaurs Lived?

[illegible]

6. Do human beings resemble the fish in this diagram?
No, human beings did not live when dinosaurs lived.

116

Why Did Dinosaurs Disappear?

abstract class theory: An abstract, highly idealized form of group occurred in the early 1900s. The extreme abstraction of it that it lacked the generalizability of it. The early group could, however, clearly offer the impression that it was the foundation.

Climate Theory Climate researchers are studying how climate change is affecting the world's oceans. The oceans are the largest source of climate change, and they are also the most difficult to study. The oceans are the largest source of climate change, and they are also the most difficult to study. The oceans are the largest source of climate change, and they are also the most difficult to study.

8. What does sedimentary rock form from?

☐ A. clay and sand

☒ B. magma

☐ C. heat and pressure

☐ D. igneous



8. What caused the Japanese tsunami in 2011?
- ☒ A) An undersea quake in the north
 - ☐ B) Massive supplies of water from the melted ice of the north
 - ☐ C) No evidence exists for what happened
 - ☐ D) Two earthquakes happened

118

What Other Extinction Theories Have Been Suggested?

A new effect depends on why the stimulus has the effect you think it has. Each theory has a **cause** and an **effect**. A cause is a change that happened in the past and an effect is what results from the change in the past.

Group activities from *Inside Out* by Sherrill

Small, fast-moving fish species and large species cannot attract

Now think of something with

W... and David Kelly discuss their work.

when discussing with her the

...the



120

120

What Do You Think Happened to the Dinosaur?

To understand the why, the **what** and the **how** of the dinosaur's extinction, you need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction.



Shows will vary.

121

Are New Kinds of Dinosaurs Still Being Found?

To understand the why, the **what** and the **how** of the dinosaur's extinction, you need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction.



Shows will vary.

Shows will vary.

122

What Are Some Living Relatives of Dinosaurs?

To understand the why, the **what** and the **how** of the dinosaur's extinction, you need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction.



Shows will vary.

Shows will vary.

124

Are New Kinds of Dinosaurs Still Being Found?

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Shows will vary.

Shows will vary.

125

Keeping Up With the Dinosaurs

To understand the why, the **what** and the **how** of the dinosaur's extinction, you need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction.

Shows will vary.

Shows will vary.

126

A Dinosaur Tale

To understand the why, the **what** and the **how** of the dinosaur's extinction, you need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction.

Shows will vary.



127

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To understand the why, the **what** and the **how** of the dinosaur's extinction, you need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction.

Shows will vary.



131

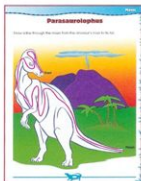
Cooling off

To understand the why, the **what** and the **how** of the dinosaur's extinction, you need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction. You need to know the **what** and the **how** of the dinosaur's extinction.

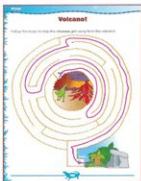
Shows will vary.



132



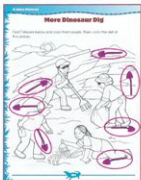
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182



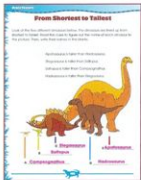
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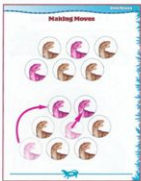
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185



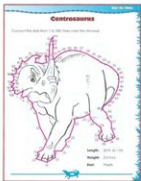
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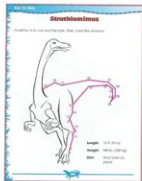
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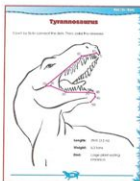
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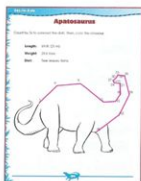
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192



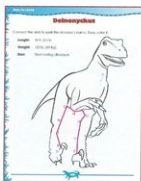
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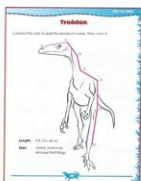
194



195



196



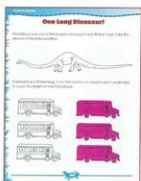
197



198



199



200

Dinosaur Tracks

Go back to each page, compare the first side of the bottom of the page with the number of dinosaur tracks below to the number on the page.

	about 2
	about 3
	about 4
	about 2
	about 4
	about 3
	about 3

How many dinosaurs did you find?

201

Sea Friends

Color the picture. Count the dinosaurs. Then place the number in the box.

How many dinosaurs did you find?

203

What's the Difference?

Color the picture. Count the dinosaurs. Then place the number in the box.

How many dinosaurs did you find?

204

Building the Nest

Help the dinosaurs build the nest. Count the number of eggs in the nest. Write the number in the box.

How many eggs did you find?

205

A Dino Discovery

Add together the number of dinosaurs in each group. Then color the dinosaurs the same color as the number they are equal to.

How many dinosaurs did you find?

206

Adding Fun

Use the number of dinosaurs in each box to add the number of dinosaurs in the box to the number of dinosaurs in the box. Then, compare the number of dinosaurs.

Answers will vary.

207

Add-a-saurus

Use the number of dinosaurs in each group to add the number of dinosaurs in the group to the number of dinosaurs in the group.

How many dinosaurs did you find?

208

A Gentle Giant

Color the picture. Count the dinosaurs. Then place the number in the box.

How many dinosaurs did you find?

209

Dino-misc!

Color the picture. Count the dinosaurs. Then place the number in the box.

How many dinosaurs did you find?

210

Don's Footprints

[illegible]

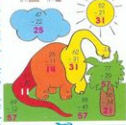
only one foot deep.

211

Prehistoric Problems

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Color: 01 -- blue, 02 -- green,
03 -- yellow, 04 -- orange,
05 -- brown, 06 -- red



212

Pin Code

It is a follow-up experiment to find out what the following problem is and why the following after school sports classes are the best.

THE FULL OF
DINO-MIGHT

See [previous](#) to compare what *Rechtschreibung* is doing that this does not appear to do.



213

Heading to the Finish

Source: <http://www.irs.gov>



214

Want For The Answer

Source: Author's calculations.

	20 10 5 2	1104 38	4797 30-41	4752 12-15	
	4752 16-18	2782 33	2738 34	4787 20	
4787 19-20	4752 13-15	4752 32	4752 31	4752 19	
4752 11-12	4752 17-18	4752 35	4752 36	4752 21	



215

Bitte bewerten!

[illegible]

140 47.540	676 27.566	306 47.717	215 47.860		309 47.648
185 47.757	111 47.941	121 47.968	396 47.774	947 47.707	738 47.833



216

Mr. Dingman Meets Business

1. In the above problem, write the updated cost

44-38862-1



217

Dùng Tic-Tac-Toe

[illegible]

... ..

Figure 1

T	S	S	T	S	T	T
S	G	T	T	T	T	S
T	T	S	S	T	T	S
T	G	S	S	S	S	T
S	S	T	T	G	T	S
S	T	T	T	S	T	T




Figure 2

T	S	S	T	S	T	T
S	G	T	T	T	T	S
T	T	S	S	T	T	S
T	G	S	S	S	S	T
S	S	T	T	G	T	S
S	T	T	T	S	T	T




218

Reduce It!


Reprints of single copies for up to 500 copies are available in paperback or hardcover binding.






1. $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ 2. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ 3. $\frac{1}{5} \times \frac{1}{10} = \frac{1}{50}$








4. $\frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$ 5. $\frac{1}{8} \times \frac{1}{3} = \frac{1}{24}$ 6. $\frac{1}{10} \times \frac{1}{5} = \frac{1}{50}$





7. $\frac{1}{24} \times \frac{1}{2} = \frac{1}{48}$ 8. $\frac{1}{24} \times \frac{1}{4} = \frac{1}{96}$ 9. $\frac{1}{50} \times \frac{1}{10} = \frac{1}{500}$

10. $\frac{1}{48} \times \frac{1}{3} = \frac{1}{144}$ 11. $\frac{1}{96} \times \frac{1}{8} = \frac{1}{768}$ 12. $\frac{1}{500} \times \frac{1}{20} = \frac{1}{10000}$

219

Word Problem

Spinosaurus's Trip

Spinosaurus took a trip to Suburbia's store. Reading maps and around the questions, he can find the answers.

- How far did Spinosaurus walk to the store? He walked 2 miles.
- How far did Spinosaurus walk from the store to the park? He walked 3 miles.
- How far did Spinosaurus walk from the park to the home? He walked 4 miles.

220

Story Problems

Read each story and draw. Write a number sentence to solve each problem.

- Chloe has 10 apples. She gave 3 to her friend. How many apples does she have left? 7
- There are 15 children in the class. 5 of them are boys. How many girls are there? 10
- There are 100 dollars in the bank. 20 dollars were taken out. How much money is left? 80
- There are 100 dollars in the bank. 20 dollars were taken out. How much money is left? 80

221

Word Problem

Sink Your Teeth Into This!

Read the story problems.

- There are 100 teeth in the mouth. 20 teeth are missing. How many teeth are left? 80
- There are 100 teeth in the mouth. 20 teeth are missing. How many teeth are left? 80
- There are 100 teeth in the mouth. 20 teeth are missing. How many teeth are left? 80
- There are 100 teeth in the mouth. 20 teeth are missing. How many teeth are left? 80

222

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